

CLOSURE REPORT

MILLMAN SB STATE #2

API NO: 30-015-24756

2RP - 4983

RELEASE DATE: 9.11.2018

U/L: K – SECTION 16 – TOWNSHIP 19S – RANGE 28E

EDDY COUNTY, NEW MEXICO

PREPARED BY:



4024 PLAINS HWY LOVINGTON, NM 88260

June 15, 2020

Grizzly Energy C/O Carmen Pitt 4001 Penbrook, Suite 201 Odessa, TX 79761

New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau – District II
C/O Robert Hamlet, Environmental Specialist
811 S. First Street
Artesia, NM 88210

RE: CLOSURE REPORT REQUEST
GRIZZLY ENERGY – MILLMAN SB STATE #2
API NO. 30-025-05430

Mr. Hamlet,

On behalf of Grizzly Energy, Hungry Horse LLC would like to address the environmental remediation that was conducted on the Millman SB State #2 and to request the closure of the release detailed herein. Please note that White Buffalo Environmental conducted the delineation and submitted the remediation plan for this site on December 3rd, 2018.

The site is located in Eddy County, New Mexico. The incident occurred due to an offset frac on a nearby well, that caused the seperator to overpressure and release through the relief valve. A large area was sprayed by oil that covered approximately 304,920 Sq. Ft. of pasture and pad area. The release occurred on or before September 11th of 2018.

Ground Water Data

An extended ground water study of the area was conducted prior to delineation of the site and it was determined that according to the New Mexico Office of the State Engineer, the vadose zone depth at this release location averaged 167'bgs. Detailed below, you will find the closest wells located to the Millman State SB #2:

CP 00361 POD 1 - 1,575 ft. from the site at a depth of 265'bgs (below ground surface) CP 00478 POD 1 - 3,530 ft. from the site at a depth of 145'bgs CP 00502 - 3,679 ft. from the site at a depth of 91'bgs

Site Characteristics

Using the Table I, Closure Criteria for Soils Impacted by a Release, dated after 8/14/2018, the site falls under the site ranking of greater than 100'bgs. This site was delineated as to the new rule. Below you will find the site ranking for the Millman SB State #2:

Closure Criteria for Soil NMAC 19.15.29					
Depth	Constituent	Constituent Method Limit			
>100 feet	Chloride	EPA 300.0 OR SM4500 CL B	20,000 mg/kg		
	TPH (GRO+DRO+MRO)	EPA SW-846 Method	2,500 mg/kg		
	GRO + DRO	EPA SW-846 Method 8015M	1,000 mg/kg		
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg		
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg		

Background

The site had an accidental discharge of fluid associated with the Millman SB State #2. It was estimated that 28bbls of oil was released onto the pad and pasture area. No fluid was recovered at the time of notification due to the release being a spray release only. As mentioned above the release was discovered on or before September 11th of 2018. The NMOCD assigned 2RP-4983 to this release as specified in the email attached dated 9.26.2018.

Delineation

On October 30th, of 2018, White Buffalo Environmental was contracted by Grizzly Energy to conduct an onsite investigation and to begin delineation of the impacted area. Surface samples were obtained and site was measured for accurate impact. The site was fully delineated vertically and horizontally, as seen in the remediation plan that was submitted by WBE on February 7th of 2019, which is located on the NMOCD website. The remediation plan was approved by the NMOCD on April 26th of 2019, please see attached emails.

Remediation

As per the Remediation Workplan, only the surface of the impacted area would be remediated per NMOCD Guidelines. On June 10th of 2019, Hungry Horse, LLC began the remediation of this site detailed herein. The surface area was scraped and the impacted soil was loaded and hauled to Lea Land for disposal. The location pad and pasture area was back-dragged. The pasture area was ripped and seeded with BLM #3 seed (Seed Tag Attached) to ensure vegetation was put back to its natural state. The impacted area measured a total of seven acres of sprayed surface. A total of 300 cubic yards of impacted soil was hauled to Lea Land for disposal.

In the email correspondence with NMOCD, final closure sampling was not conducted. Due to the large number of samples that were taken during the remediation process with the significantly large area of impact, the NMOCD acknowledged the delineation sampling event as closure samples as well. A total of 47 sample points and 15 sidewalls were obtained during the delineation process. Please see the sample map attached with the following field and lab data.

On June 12, 2020, Hungry Horse mobilized on location in an effort to fully delinate and remediate the area characterized by sample location SW2-2' which exhibted TPH over the NMOCD Closure criteria. The area was excavated, with approximately 1 cy of material hauled for disposal. The excavation was then sampled at 3' and 4' bgs. Samples were sent to the lab for analysis of BTEX, TPH, and chloride. Labrotory analytical data indicated both samples were below the NMOCD Closure criteria, so the excavation was then backfilled.

Please also see the 2020 Google site map that shows the remediation has taken place along with site photos that are attached as well.

Conclusion

With the data provided for the remediation of the Millman State SB State #2, Hungry Horse, LLC on behalf of Grizzly Energy would like to request closure of the environmental release that occurred on September 11th, 2018.

If you have any questions regarding this closure request, please do not hesitate to contact me at any time.

Sincerely,

Lindsey Salgado

Project Manager

Hungry Horse, LLC 4024 Plains Highway

Lovington, NM 88260

Cell: (432) 241-2480

Email: lsalgado@hungry-horse.com

Gudsey algado

Attachments:

Initial C141

2RP-4983 OCD Email

Remediation C141

Remediation Approval Email

Ground Water Data

Ground Water Map

Karst Map

Sample Data & Sample Map

Remediation Map

Laboratory Analysis

Initial, Remediation and Final Photos

Final C141



District 1
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NMAP1826969177
District RP	2RP-4983
Facility ID	N/A
Application ID	pMAP1826968910

Release Notification

Responsible Party

			ICS	ponsi		. Ly
Responsible Party Vanguard Operating, LLC				OGRID 25	258350	
Contact Name Jason Fisher			Contact Te	Telephone 505—918-0523		
Contact emai	il jfisher@vı	renergy.com			Incident#	(assigned by OCD) NMAP1826969177
Contact mail 79762	ing address	4001 Penbrooke S	uite 201 Odessa,	ГХ		
			Location	ı of R	elease S	Source
Latitude 32.	658802		(NAD 83 in d	'ecimal de	Longitude grees to 5 deci	e -104.1830902 ecimal places)
Site Name N	Aillman SB :	State #2			Site Type	e Well Site
Date Release	e Discovered	1 9-11-2018			API# 30-0	-015-24756
Unit Letter	Section	Township	Township Range County			inty
K	16	19S	28E	Eddy		
Surface Own	er: State	Federal 1	ribal □ Private Nature an		ume of	f Release
				h calculat	ions or specific	ific justification for the volumes provided below)
☐ Crude Oil Volume Released (bbls) 28			Volume Recovered (bbls) 0			
Produced Water Volume Released (bbls)				Volume Recovered (bbls)		
Is the concentration of dissolved chloride in produced water >10,000 mg/l?		in the	Yes No			
Condensate Volume Released (bbls)				Volume Recovered (bbls)		
Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units)			Volume/Weight Recovered (provide units)			
						verpressure and release through the relief valve. A large ne displacement of the pipe string.

B&B Backhoe began scraping and stockpiling the soil. TRC will begin sampling to delineate the area and prepare a work plan.

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Incident ID NMAP1826969177

District RP 2RP-4983

Facility ID N/A

Application ID pMAP1826968910

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? Greater than 25 bbls.
X Yes No	
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? To Mike Bratcher by email 9-12-2018 5:04 pm.
	Initial Response
The responsible	e party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.
∑ The impacted area ha	s been secured to protect human health and the environment.
Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have not been undertaken, explain why:
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence remediation immediately after discovery of a release. If remediation
	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name:Chuc	k Johnston Title:EHS Operations Specialist
Signature:	Date:9-24-2018_
email:cjohnston@vi	Telephone:432-202-4771
OCD Only	
Received by:	Date: 09/26/18
INCCCIACO DA:	Date: 00/20/10

From: <u>Pruett, Maria, EMNRD</u>

To: <u>Bratcher, Mike, EMNRD; Chuck Johnston</u>

Cc: Mann, Ryan

 Subject:
 2RP-4983 Millman SB State #2 C-141

 Date:
 Wednesday, September 26, 2018 7:16:00 PM

Attachments: 2. OCD Signed Release Notification Millman SB State #2 C-141.pdf

image001.png

Hello Mr. Johnston,

OCD has received your Release Notification C-141, thank you! This has been assigned 2RP-4983. Please let me know if you have any questions.

Best Regards,

Environmental Specialist

Maria Pruett

N.M. Oil Conservation Division

District 2

811 S. 1st Street Artesia, NM 88210

Desk: 575 748-1283 X 101

Cell: 575 840-5963 Fax: 575748-9720

From: Chuck Johnston < cjohnston@vnrenergy.com>

Sent: Tuesday, September 25, 2018 9:17 AM

To: Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us>

Subject: Millman SB State #2 C-141

Mike, please find attached the C-141 form for the Millman SB State #2. We are scheduling TRC to sample and delineate.

Chuck Johnston
EHS / Operations Specialist
432-202-4771 Cell
432-248-8154 Office
4001 Penbrooke Ste. 201
Odessa, TX 79762



District 1
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

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District RP	2RP-4983
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Release Notification

Responsible Party

			Nes	honsi	Die Fai i	. y	
Responsible Party Vanguard Operating, LLC				OGRID 25	8350		
Contact Name Jason Fisher				Contact Te	lephone 505—918	8-0523	
Contact emai	il jfisher@vr	renergy.com			Incident#	(assigned by OCD) N	IMAP1826969177
Contact mail 79762	ing address 4	4001 Penbrooke S	uite 201 Odessa, T	ГX			
			Location	1 of R	telease S	ource	
Latitude 32.	658802		(NAD 83 in d		Longitude grees to 5 deci	-104.1830902 mal places)	
Site Name N	Aillman SB S	State #2		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Site Type	Well Site	
Date Release	e Discovered	1 9-11-2018			API# 30-015-24756		
Unit Letter	Section	Township Range Cou		Count	ty		
K	16	19S	28E	Eddy	Count		
Surface Own	er: State	Federal 🔲 T)
			Nature an	d Vol	lume of	Release	
M.C. 1. 01				h calculat	ions or specific		olumes provided below)
Crude Oil Volume Released (bbls) 28		****		Volume Recovered (bbls) 0			
Produced Water Volume Released (bbls)				Volume Recovered (bbls)			
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		in the	Yes 🗌 No			
Condensate Volume Released (bbls)				Volume Recovered (bbls)			
Natural Gas Volume Released (Mcf)				Volume Recover	ed (Mcf)		
Other (de	scribe)	Volume/Weight Released (provide units)			Volume/Weight l	Recovered (provide units)	
						rpressure and relea displacement of th	ase through the relief valve. A large he pipe string.

B&B Backhoe began scraping and stockpiling the soil. TRC will begin sampling to delineate the area and prepare a work plan.

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Incident ID NMAP1826969177

District RP 2RP-4983

Facility ID N/A

Application ID pMAP1826968910

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respo Greater than 25 bbls.	nsible party consider this a major release?
X Yes No		
	otice given to the OCD? By whom? To wood of Mike Bratcher by email 9-12-2018 5:04	hom? When and by what means (phone, email, etc)? pm.
	Initial I	Response
The responsible	party must undertake the following actions immedia	tely unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
∑ The impacted area has	s been secured to protect human health and	the environment.
Released materials ha	we been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
		remediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred
		please attach all information needed for closure evaluation.
I hereby certify that the infor	mation given above is true and complete to the	best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are	required to report and/or file certain release not	fications and perform corrective actions for releases which may endanger
failed to adequately investiga	ate and remediate contamination that pose a three	OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
_	k Johnston	Title:EHS Operations Specialist
	/ 1	-
Signature:	- Joseph	Date:9-24-2018_
email:cjohnston@vr	renergy.com	Telephone:432-202-4771
OCD Only	1111	
Received by:	Muco	Date: 09/26/18

Received by OCD: 6/17/2020 2:47:07 PM Form C-141 State of New Mexico Oil Conservation Division Page 3

Incident ID	
District RP	
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Application ID	

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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	377' (ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No			
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody	ls.			

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 6/17/2020 2:47:07 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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	1 uge 13 0j 13
Incident ID	
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.				
Printed Name:Natalie Gladden Title:Environmental and Regulatory Director				
Signature: Otalii Galadden Date: 2/7/19				
email: _Natalie.Gladden@whitebuffalo.com_				
OCD Only				
Received by: Robert Hamlet Date: 4/26/2019				

Received by OCD: 6/17/2020 2:47:07 PM Form C-141 St

Page 5

State of New Mexico
Oil Conservation Division

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Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. Printed Name: Natalie Gladden Title: Environmental and Regulatory Director Signature:
OCD Only
Received by: Robert Hamlet Date: 4/26/2019
Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date: 4/26/2019

Hamlet, Robert, EMNRD

From: Hamlet, Robert, EMNRD

Sent: Friday, April 26, 2019 9:51 AM

To: 'Natalie Gladden'

Cc: Bratcher, Mike, EMNRD; Venegas, Victoria, EMNRD

Subject: Remediation Plan Approval - Vanguard - Millman SB State #2 - (2RP-4983) 9-11-2019

Attachments: Remediation Plan Approval - Vanguard - Work Plan Millman SB State 2 - (2RP-4983) 4-26-2019.pdf

Natalie,

After looking at the soil samples, it looks like the fluid that was released was mostly water. Frac fluid is usually composed of 100 mesh sand, clean water, and a varying amount of acid. If 28 BBLs of oil was released there would have been high amounts of organics on the surface.

When you send in this type of closure in the future, please ask for a variance on representative sample size area (Example: 1000 ft) set forth in 19.15.29.14 NMAC . Also, give 48 hrs notice on sampling date, so OCD has an opportunity to witness if personnel are available.

Since a large number of samples have already been conducted, we will accept the sampling regime for closure after the surface staining has been remediated and we receive the closure report.

We have received your Workplan/Remediation Proposal for <u>2RP-4983</u> Millman SB State #2, thank you. This Workplan/Remediation proposal is approved.

Please let me know if you have any further questions.

Regards,

Robert J Hamlet State of New Mexico Energy, Minerals, and Natural Resources Oil Conservation Division 811 S. First St., Artesia NM 88210 (575) 840-5963

Robert.Hamlet@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

From: Natalie Gladden < Natalie. Gladden @whitebuffalo.com >

Sent: Thursday, April 25, 2019 10:35 AM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us>

Subject: [EXT] FW: Corrected Work Plan for Vanguard Millman SB State #2

Importance: High

Natalie Gladden

Regulatory & Environmental Director



White Buffalo Environmental, Inc.

407 East Broadway Hobbs, NM 88240 O: (575) 738-0424 F: (575) 738-0430 C: (575) 390-6397

From: Natalie Gladden

Sent: Thursday, February 21, 2019 11:44 AM

To: 'mike.bratcher@state.nm.us' < <u>mike.bratcher@state.nm.us</u>> **Subject:** FW: Corrected Work Plan for Vanguard Millman SB State #2

Importance: High

Have you had a chance to finalize this workplan. Vanguard would like to move forward immediately.

Thank you

Natalie Gladden

Regulatory & Environmental Director



White Buffalo Environmental, Inc.

407 East Broadway Hobbs, NM 88240 O: (575) 738-0424 F: (575) 738-0430

C: (575) 390-6397

From: Natalie Gladden

Sent: Thursday, February 7, 2019 11:34 AM

To: 'mike.bratcher@state.nm.us' < <u>mike.bratcher@state.nm.us</u>> **Subject:** Corrected Work Plan for Vanguard Millman SB State #2

Mike,

I have inserted the appropriate pages on the C141. The only thing we did not have at this time was the GPS photos. But these will be done going forward.

Thank you for your assistance.

Natalie Gladden

Regulatory & Environmental Director



White Buffalo Environmental, Inc.

407 East Broadway Hobbs, NM 88240 O: (575) 738-0424 F: (575) 738-0430

C: (575) 390-6397



Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 576609 **Northing (Y):** 3613757.47 **Radius:** 1000

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

3/17/20 8:39 AM WELLS WITH WELL LOG INFORMATION



Wells with Well Log Information

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a

(R=POD has been replaced, O=orphaned,

C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE)

water right	closed)			(quarters	are smal	lest to	largest)	(NAD83	3 UTM in meters))			(in fe	eet)	
		POD			qqq							Log File	Depth	Depth	License
POD Number	Code	Subbasin	County	Source	64164	Sec	Tws Rng	X	Y	Distance Start Date	Finish Date	Date	Well	Water Driller	Number
<u>CP 00361 POD1</u>		CP	ED	Shallow	3 1 3	09	19S 28E	576094	3615246*	1575 04/19/1971	05/13/1966	05/25/1971	365	265 LOWE DRILLING CO.	
<u>CP 00478 POD1</u>		CP	ED	Shallow	1 1 4	05	19S 28E	575300	3617036*	3530 12/12/1969	12/23/1969	01/02/1970	312	145 CLYDE TIDWELL	406
<u>CP 00502</u>		CP	ED	Shallow	1 1	18	19S 28E	573001	3614478*	3679 03/23/1972	03/25/1972	04/05/1972	100	91 BARRON, EMMETT	30

Record Count: 3

UTMNAD83 Radius Search (in meters):

Northing (Y): 3613757.47 **Easting (X):** 576609 **Radius:** 5000

*UTM location was derived from PLSS - see Help

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

WELLS WITH WELL LOG INFORMATION 3/17/20 8:39 AM



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

X

CP 00361 POD1

3 09 19S 28E

576094 3615246*



Driller License:

Driller Company:

Driller Name:

LOWE DRILLING CO.

Drill Start Date: 04/19/1971

Drill Finish Date:

Pipe Discharge Size:

05/13/1966

Plug Date:

Source:

Shallow

Log File Date: **Pump Type:**

05/25/1971 **PCW Rcv Date:**

Estimated Yield:

Casing Size:

8.63

Depth Well:

365 feet

Depth Water:

265 feet

Water Bearing Stratifications:

Top Bottom Description

265

365 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

288 348



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X

CP 00478 POD1

05 19S 28E

575300 3617036*

Driller License: 406

Driller Company: TIDWELL, CLYDE J.

Driller Name:

CLYDE TIDWELL

12/12/1969

Drill Finish Date: 12/23/1969 Plug Date:

Drill Start Date: Log File Date:

01/02/1970

PCW Rcv Date: 11/01/1971 Source:

Shallow

Pump Type:

SUBMER

Pipe Discharge Size:

Estimated Yield: 7 GPM

Casing Size:

7.00

Depth Well:

312 feet

Depth Water:

145 feet

Water Bearing Stratifications:

Top Bottom Description

150

160 Sandstone/Gravel/Conglomerate

200

Sandstone/Gravel/Conglomerate 262

Casing Perforations:

Top Bottom

140

262



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

CP 00502

I 1 18 19S 28E

573001 3614478*



Driller License: 30 Driller Company: BARRON, EMMETT

Driller Name: BARRON, EMMETT

Drill Start Date: 03/23/1972

Drill Finish Date: PCW Rcv Date:

03/25/1972 Plug Date:

Shallow

Log File Date: Pump Type:

Pipe Discharge Size:

Estimated Yield:

Source:

Casing Size: 5.25 Depth Well:

04/05/1972

100 feet

Depth Water:

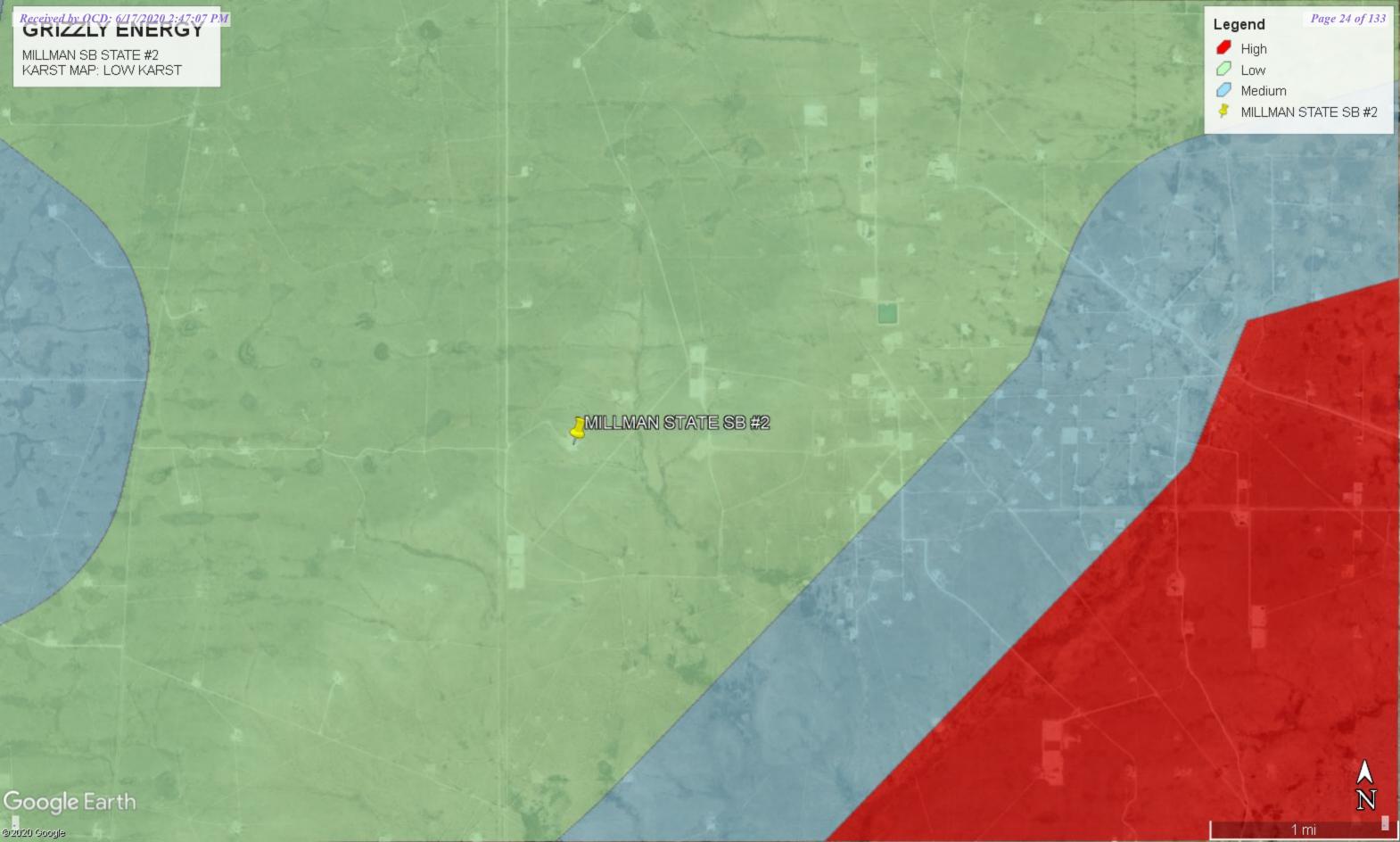
91 feet

Water Bearing Stratifications:

Top Bottom Description

95 100 Sandstone/Gravel/Conglomerate





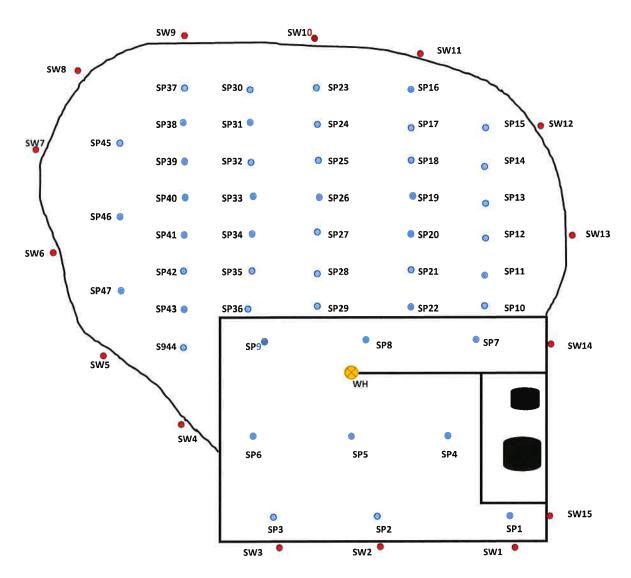
Sample ID	Ft	Field Chl	Titration	PID	Lab-Chl	Lab-BTEX	Lab-GRO	Lab-DRO	Lab-MRO	TPH	Soil	Notes
SP1	SUR	<30										
	2'	252	94		384	<0.300	<10	<10	<10	<10	CAL	
SP2	SUR	<30										
	2'		64		320	<0.300	<10	<10	<10	<10	CAL	
SP3	SUR	<30										
	2'	<30	70		32	<0.300	<10	<10	<10	<10	CAL	
SP4	SUR	<30										
	2'		84		768	<0.300	<10	<10	<10	<10	CAL	
SP5	SUR	<30										
	2'		84		352	<0.300	<10	<10	<10	<10	CAL	
SP6	SUR	<30										
	2'	<30	62		48	<0.300	<10	<10	<10	<10	CAL	
SP7	SUR	<30										
	2'		138		1140	<0.300	<10	<10	<10	<10	CAL	
SP8	SUR	<30										
	2'		58		128	<0.300	<10	<10	<10	<10	CAL	
SP9	SUR	<30										
	2'	<30	46		16	<0.300	<10	<10	<10	<10	CAL	
SP10	SUR	<30										
	2'	<30	44		48	<0.300	<10	<10	<10	<10	CAL	
SP11	SUR	<30										
	2'	<30	46		32	<0.300	<10	11.4	<10	11.4	CAL	
SP12	SUR	<30										
	2'	<30	50		48	<0.300	<10	<10	<10	<10	CAL	
SP13	SUR	<30										
	2'	<30	42		32	<0.300	<10	<10	<10	<10	CAL	
SP14	SUR	<30										
	2'	<30	46		32	<0.300	<10	12.9	<10	12.9	CAL	
SP15	SUR	<30										
	2'	<30	48		32	<0.300	<10	<10	<10	<10	CAL	
SP16	SUR	<30										
	2'	<30	42		<16	<0.300	<10	<10	<10	<10	CAL	

Sample ID	Ft	Field Chl	Titration	PID	Lab-Chl	Lab-BTEX	Lab-GRO	Lab-DRO	Lab-MRO	TPH	Soil	Notes
SP17	SUR	<30										
	2'	<30	58		32	<0.300	<10	<10	<10	<10	CAL	
SP18	SUR	<30										
	2'	<30	50		32	<0.300	<10	<10	<10	<10	CAL	
SP19	SUR	<30										
	2'	<30	48		32	<0.300	<10	<10	<10	<10	CAL	
SP20	SUR	<30										
	2'	<30	64		48	<0.300	<10	16.4	<10	16.4	CAL	
SP21	SUR											
	2'	<30	58		48	<0.300	<10	51.3	<10	51.3		
SP22	SUR											
	2'		42		32	<0.300	<10	<10	<10	<10	CAL	
SP23	SUR	<30										
	2'	<30	64		32	<0.300	<10	<10	<10	<10	CAL	
SP24	SUR	<30										
	2'	<30	38		32	<0.300	<10	<10	<10	<10	CAL	
SP25	SUR	<30										
	2'	<30	50		32	<0.300	<10	<10	<10	<10	CAL	
SP26	SUR	<30										
	2'	<30	54		32	<0.300	<10	<10	<10	<10	CAL	
SP27	SUR	<30										
	2'	<30	60		16	<0.300	<10	<10	<10	<10	CAL	
SP28	SUR	<30										
	2'	<30	58		32	<0.300	<10	<10	<10	<10	CAL	
SP29	SUR	<30				0.000	10	10	10	4.0	0.11	
0000	2'	<30	42		64	<0.300	<10	<10	<10	<10	CAL	
SP30	SUR	<30	F.0		22	.0.200	.40	.40	.10	.4.0	CAL	
CD24	2'	<30	58		32	<0.300	<10	<10	<10	<10	CAL	
SP31	SUR 2'	<30	C 4		22	40 200	-10	-10	-10	-110	CAL	
CD22		<30	64		32	<0.300	<10	<10	<10	<10	CAL	
SP32	SUR	<30	- 63		22	40.200	44.0	44.0	44.0	-40	CAL	
	2'	<30	62		32	<0.300	<10	<10	<10	<10	CAL	

Sample ID	Ft	Field Chl	Titration	PID	Lab-Chl	Lab-BTEX	Lab-GRO	Lab-DRO	Lab-MRO	TPH	Soil	Notes
SP33	SUR	<30										
	2'	<30	58		16	<0.300	<10	<10	<10	<10	CAL	
SP34	SUR	<30										
	2'	<30	56		32	<0.300	<10	<10	<10	<10	CAL	
SP35	SUR	<30										
	2'	<30	44		<16	<0.300	<10	<10	<10	<10	CAL	
SP36	SUR	<30										
	2'	<30	52		<16	<0.300	<10	<10	<10	<10	CAL	
SP37	SUR	<30										
	2'	<30	48		32	<0.300	<10	<10	<10	<10	CAL	
SP38	SUR	<30										
	2'	<30	48		<16	<0.300	<10	<10	<10	<10	CAL	
SP39	SUR	<30										
	2'	<30	48		16	<0.300	<10	<10	<10	<10	CAL	
SP40	SUR	<30										
	2'	<30	50		64	<0.300	<10	<10	<10	<10	CAL	
SP41	SUR	<30										
	2'	<30	52		32	<0.300	<10	<10	<10	<10	CAL	
SP42	SUR	<30										
	2'	<30	38		32	<0.300	<10	<10	<10	<10	CAL	
SP43	SUR	<30										
	2'	<30	48		32	<0.300	<10	<10	<10	<10	CAL	
SP44	SUR	<30										
	2'	<30	40		32	<0.300	<10	<10	<10	<10	CAL	
SP45	SUR	<30										
	2'	<30	46		16	<0.300	<10	<10	<10	<10	CAL	
SP46	SUR	<30										
	2'	<30	36		32	<0.300	<10	<10	<10	<10	CAL	
SP47	SUR	<30										
	2'	<30	42		144	<0.300	<10	<10	<10	<10	CAL	
SW1	SUR	<30										
	2'	<30	44		16	<0.300	<10	<10	<10	<10	CAL	

Sample ID	Ft	Field Chl	Titration	PID	Lab-Chl	Lab-BTEX	Lab-GRO	Lab-DRO	Lab-MRO	TPH	Soil	Notes
SW2	SUR	<30										
	2'	<30	54		48	<0.300	<10	288	138	426	CAL	
SW3	SUR	<30										
	2'	<30	54		32	<0.300	<10	<10	<10	<10	CAL	
SW4	SUR	<30										
	2'	<30	48		32	<0.300	<10	<10	<10	<10	CAL	
SW5	SUR	<30										
	2'	<30	40		<16	<0.300	<10	<10	<10	<10	CAL	
SW6	SUR	<30										
	2'	<30	42		<16	<0.300	<10	<10	<10	<10	CAL	
SW7	SUR	<30										
	2'	<30	46		32	<0.300	<10	<10	<10	<10	CAL	
SW8	SUR	<30										
	2'	<30	48		<16	<0.300	<10	<10	<10	<10	CAL	
SW9	SUR	<30										
	2'	<30	50		32	<0.300	<10	<10	<10	<10	CAL	
SW10	SUR	<30										
	2'	<30	56		32	<0.300	<10	<10	<10	<10	CAL	
SW11	SUR	<30										
	2'	<30	42		16	<0.300	<10	<10	<10	<10	CAL	
SW12	SUR	<30										
	2'	<30	48		<16	<0.300	<10	<10	<10	<10	CAL	
SW13	SUR	<30										
	2'	<30	42		<16	<0.300	<10	<10	<10	<10	CAL	
SW14	SUR	<30										
	2'	<30	46		32	<0.300	<10	<10	<10	<10	CAL	
SW15	SUR	<30										
	2'	<30	42		16	<0.300	<10	<10	<10		CAL	
SW2	3'	<30	160		ND	ND	ND	ND	ND	ND		
	4'	<30	80		ND	ND	ND	ND	ND	ND		

Vanguard Natural Resources Millman SB State #2 Release date 9-11-18 2RP-4983



- Sample Points
- Side Wall Sample Points





November 12, 2018

NATALIE GLADDEN WHITE BUFFALO 8908 YALE AVE #210 TULSA, OK 74137

RE: MILLMAN SB ST #2

Enclosed are the results of analyses for samples received by the laboratory on 11/06/18 15:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524,2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

10/31/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 1 - 2' (H803191-01)

BTEX 8021B	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	175	87.6	200	13.0	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	182	90.8	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	94.0 9	% 41-142							
Surrogate: 1-Chlorooctadecane	81.49	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

10/31/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 2 - 2' (H803191-02)

BTEX 8021B	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.9	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	86.9 9	% 41-142			_				
Surrogate: 1-Chlorooctadecane	86.69	37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 53



Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

86.0 %

37.6-147

Project Name: Project Number: MILLMAN SB ST #2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

10/31/2018

Sampling Type: Sampling Condition:

Soil

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 3 - 2' (H803191-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.5	% 69.8-142	?						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND :	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane									

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Surrogate: I-Chlorooctadecane

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Celen Ditrema

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name: Project Number:

MILLMAN SB ST #2 NONE GIVEN

Project Location:

NOT GIVEN

85.9 %

37.6-147

Sampling Date:

ing Date:

Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

10/31/2018

Sample ID: SP 4 - 2' (H803191-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.1	% 69.8-14.	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	85.69	% 41-142							

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

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Celey T. Keens

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN Sampling Date:

•

10/31/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 5 - 2' (H803191-05)

BTEX 8021B	mg/	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.7	% 69.8-14	2						=
Chloride, SM4500Cl-B	mg/	kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	87.8	% 41-142							
Surrogate: 1-Chlorooctadecane	88.2	% 37.6-14	7						

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN

91.1%

92.0 %

41-142

37.6-147

Sampling Date:

10/31/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 6 - 2' (H803191-06)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	93.7	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
St									

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Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

Analyte

NONE GIVEN

Result

90.8 %

37.6-147

Sampling Date:

11/01/2018

Sampling Type:

Soil

True Value QC

Sampling Condition:

Cool & Intact

Sample Received By:

% Recovery

Tamara Oldaker

RPD

Qualifier

Sample ID: SP 7 - 2' (H803191-07)

BTEX	8021B
_	

mg/	kg	
lt	Reporting Limit	

Ana	lyzed	By:	ms

Method Blank

Analyzed

Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	93.4	% 69.8-14	2						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	90.8	% 41-142							

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Surrogate: 1-Chlorooctadecane

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

BTEX 8021B

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN

mg/kg

Sampling Date:

11/01/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 8 - 2' (H803191-08)

DIEV 905TB	ilig/	kg	Allalyze	d by. IIIs					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	93.5	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Analyzed By: ms

Surrogate: 1-Chlorooctane 91.0 %
Surrogate: 1-Chlorooctadecane 91.1 %

41-142

37.6-147

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

11/01/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 9 - 2' (H803191-09)

		 21	
_			

ly: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					

Cumpagatas d Puomofluorobangana (DIF

05 5 04

60 9 142

Surrogate: 4-Bromojiuorobenzene (PIL	93,3	% 09.8-142							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane

93.1 %

41-142

Surrogate: I-Chlorooctadecane

92.1 %

37.6-147

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

11/01/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 10 - 2' (H803191-10)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0,301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10,0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	92.6	% 41-142							
Surrogate: 1-Chlorooctadecane	92.4	% 37.6-14	7						

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Sampling Date:

11/01/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 11 - 2' (H803191-11)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	96.3	% 69.8-14	2						
Chloride, SM4500CI-B	ride, SM4500CI-B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	11.4	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	95.2	% 41-142							
Surrogate: 1-Chlorooctadecane	96.5	% 37.6-14	7						

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported: Project Name:

BTEX 8021B

11/12/2018 MILLMAN SB ST #2

mg/kg

95.4 %

97.2 %

41-142

37.6-147

Project Number: Project Location:

NONE GIVEN

Sampling Date:

11/01/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 12 - 2' (H803191-12)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.9	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10,0	11/08/2018	ND					

Analyzed By: ms

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Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

Sampling Type: Soil

Sampling Condition:

Cool & Intact

11/01/2018

Sample Received By:

Tamara Oldaker

Sample ID: SP 13 - 2' (H803191-13)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL	95.5	% 69.8-142	?						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	H 8015M mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
			11/08/2018	ND					

Surrogate: 1-Chlorooctane

91.9%

41-142

Surrogate: 1-Chlorooctadecane

90.0 %

37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date: Sampling Type:

11/01/2018

Soil

True Value QC

Sampling Condition: Sample Received By: Cool & Intact

% Recovery

Tamara Oldaker

RPD

Qualifier

Sample ID: SP 14 - 2' (H803191-14)

BTEX 8021E	3
	Analyte

94.6%

37.6-147

Reporting Limit

Result

Analyzed By: ms

Analyzed

Method Blank

Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.4	% 69.8-14.	2						
Chloride, SM4500Cl-B	loride, SM4500Cl-B mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg,	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	12.9	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	94.6	% 41-142							

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Surrogate: 1-Chlorooctadecane

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN

Sampling Date:

11/01/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 15 - 2' (H803191-15)

B1EX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	

ND

11/09/2018

Surrogate: 4-Bromofluorobenzene (PIL

Total BTEX

94.6 %

< 0.300

69.8-142

0,300

Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	32.0	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Surrogate: I-Chlorooctane

94.4 %

41-142

Surrogate: 1-Chlorooctadecane

94.8 %

37.6-147

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

11/01/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 16 - 2' (H803191-16)

BTEX 8021B	mg/kg				
Analyte	Result	Report			

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
<0.050	0.050	11/09/2018	ND	1.85	92,6	2.00	0.256	
<0.150	0.150	11/09/2018	ND	5,81	96.8	6.00	0.301	
<0.300	0.300	11/09/2018	ND					
	<0.050 <0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Analyzed By: ms

Surrogate: 4-Bromofluorobenzene (PIL

69.8-142

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane

94.3 %

41-142

Surrogate: 1-Chlorooctadecane

95.9 %

37.6-147

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received: Reported: 11/06/2018

11/12/2018

MILLMAN SB ST #2

Project Number: Project Location:

Project Name:

NONE GIVEN **NOT GIVEN**

Sampling Date:

Sampling Type:

11/01/2018 Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 17 - 2' (H803191-17)

BTEX 8021B

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0,300	11/09/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL

94.1%

69.8-142

Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	+
DRO >C10-C28*	<10.0	10,0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane

89.6 %

89.0 %

41-142 37.6-147

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

BTEX 8021B

11/12/2018

Project Name:

MILLMAN SB ST #2

mg/kg

Project Number: Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

11/01/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 18 - 2' (H803191-18)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.7	% 69.8-14.	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride									
	32.0	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	32.0 mg/		11/09/2018 Analyze		432	108	400	3.77	
TPH 8015M Analyte			• •		432 BS	108 % Recovery	400 True Value QC	3.77 RPD	Qualifier
	mg/	kg	Analyze	d By: MS					Qualifier

ND

11/08/2018

Analyzed By: ms

Surrogate: 1-Chlorooctane 93.2 % 41-142 Surrogate: 1-Chlorooctadecane 93.1% 37.6-147

<10.0

10.0

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EXT DRO >C28-C36

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

Sampling Type:

11/01/2018

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 19 - 2' (H803191-19)

BTEX 8021B	mg,	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	93.2	% 69.8-14	2						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	400	100	400	0.00	QM-07
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10,0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	92.0	% 41-142							
Surrogate: 1-Chlorooctadecane	92.19	% 37.6-14	7						

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name: Project Number: MILLMAN SB ST #2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

1.82

5.51

11/01/2018

Sampling Type:

91.2

91.8

Soil

Sampling Condition: Sample Received By: Cool & Intact

RPD

0.126

0.583

0.584

0.251

Qualifier

Tamara Oldaker

2.00

6.00

Sample ID: SP 20 - 2' (H803191-20)

Ethylbenzene*

Total Xylenes*

BTEX 8021B	mg,	/kg	Analyze	d By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	
Benzene*	<0.050	0.050	11/08/2018	ND	1.91	95.4	2.00	
Toluene*	<0.050	0.050	11/08/2018	ND	1.87	93.3	2.00	

11/08/2018

11/08/2018

11/08/2018

Total BTEX Surrogate: 4-Rromofluorobenzane (PIF

103 %

< 0.050

< 0.150

< 0.300

60-8-112

0.050

0.150

0.300

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	172	86.1	200	7.44	
DRO >C10-C28*	16.4	10.0	11/09/2018	ND	197	98.3	200	8.45	
EXT DRO >C28-C36	<10.0	10,0	11/09/2018	ND					

ND

ND

ND

Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane

89.3 %

86.8 %

41-142 37,6-147

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name: Project Number: MILLMAN SB ST #2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

te:

11/01/2018 Soil

Sampling Type:

Soll

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 21 - 2' (H803191-21)

BTEX 8021B	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/08/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/08/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 5	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	172	86.1	200	7.44	
DRO >C10-C28*	51.3	10.0	11/09/2018	ND	197	98.3	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					
Surrogate: 1-Chlorooctane	95,3	% 41-142							
Surrogate: 1-Chlorooctadecane	95,4	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

BTEX 8021B

11/12/2018

mg/kg

Project Name: Project Number: MILLMAN SB ST #2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

iiig Date:

Sampling Type: Soil
Sampling Condition: Cool

Sample Received By:

Cool & Intact

11/02/2018

Tamara Oldaker

Sample ID: SP 23 - 2' (H803191-22)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/08/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/08/2018	ND					
Surrogate: 4-Bromofluorobenzene	: (PIE 105 %	69.8-14	2						
Burroguie, 4-Bromojinorobenzene	(11) /(09.0-14	4						

Analyzed By: MS

Chłoride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10,0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 96,1 % 41-142
Surrogate: 1-Chlorooctadecane 85.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN Sampling Date:

ampling bate.

11/02/2018

Sampling Type: Sampling Condition: Soil

Sample Received By:

Cool & Intact

Tamara Oldaker

Sample ID: SP 24 - 2' (H803191-23)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	1,91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/08/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5,51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/08/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	99,3	% 41-142							
Surrogate: 1-Chlorooctadecane	85.2	% 37.6-14	7						

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

BTEX 8021B

GRO C6-C10*

DRO >C10-C28*

EXT DRO >C28-C36

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN

mg/kg

Sampling Date:

11/02/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 25 - 2' (H803191-24)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/08/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/08/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	69.8-142	?						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

ND

ND

180

206

90.2

103

11/08/2018

11/08/2018

11/08/2018

Analyzed By: MS

Surrogate: 1-Chlorooctane 90.6 % 41-142
Surrogate: 1-Chlorooctadecane 76.8 % 37.6-147

<10.0

<10,0

<10.0

10.0

10.0

10.0

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0.470

5.82

200

200

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

BTEX 8021B

11/12/2018

mg/kg

107 %

92.1 %

41-142

37.6-147

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

ate:

11/02/2018 Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 26 - 2' (H803191-25)

J.12% 00225	9,	9	711141724						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/08/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0,050	11/08/2018	ND	1.82	91.2	2.00	0.584	12
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5,51	91.8	6.00	0.251	
Total BTEX	<0,300	0.300	11/08/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 %	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
DI(0 > C10 C20	110.0								

Analyzed By: MS

Cardinal Laboratories

Surrogate: I-Chlorooctane

Surrogate: 1-Chlorooctadecane

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN

Sampling Date:

11/02/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 27 - 2' (H803191-26)

BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/08/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1,82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/08/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 69.8-14	'2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	

ND

11/08/2018

Surrogate: 1-Chlorooctane 104 % 41-142 Surrogate: 1-Chlorooctadecane 93.8 % 37.6-147

<10.0

10.0

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EXT DRO >C28-C36

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

BTEX 8021B

Total BTEX

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

Sampling Type:

11/02/2018

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 28 - 2' (H803191-27)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1,82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5,51	91.8	6.00	0.251	

11/09/2018

<0,300

0.300

Surrogate: 4-Bromofluorobenzene (PIL	103	% 69.8-142							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

ND

Surrogate: 1-Chlorooctane

106 %

41-142

Surrogate: 1-Chlorooctadecane

95.0 %

37.6-147

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

RTEV 9021B

11/12/2018

ma/ka

Project Name: Project Number: MILLMAN SB ST #2 NONE GIVEN

Project Location:

NOTE

Sampling Date:

Sample Received By:

Sampling Type:

11/02/2018 Soil

Sampling Condition:

Soil

Cool & Intact

Tamara Oldaker

Troject Location.

NOT GIVEN

Sample ID: SP 29 - 2' (H803191-28)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	102 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5,82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	105 %	% 41-142							
Surrogate: 1-Chlorooctadecane	93.8	% 37.6-14	7						

Applyzod By: MC

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

11/02/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 30 - 2' (H803191-29)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 69.8-14	22						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	113	% 41-142	?						
Surrogate: 1-Chlorooctadecane	99.5	% 37.6-14	7						

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

11/02/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 31 - 2' (H803191-30)

TEX 8021B

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5,51	91.8	6,00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					

rogata: 1-Riomofluorohanzana (PIF

69.8-142

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane

103 %

41-142

Surrogate: I-Chlorooctadecane

93.4%

37.6-147

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Celey Theene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

11/02/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 32 - 2' (H803191-31)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	104 9	% 41-142	1						
Surrogate: 1-Chlorooctadecane	93.9	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 32 of 53



Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

Analyte

NONE GIVEN

Result

Sampling Date:

oling Date:

% Recovery

11/02/2018 Soil

True Value QC

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

RPD

Qualifier

Sample ID: SP 33 - 2' (H803191-32)

В	TEX	8021B	
-			-

mg	1	kg
----	---	----

Reporting Limit

Ana	lyzed	By:	MS
-----	-------	-----	----

Method Blank

Analyzed

Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 5	69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	96.8	% 41-142							
Surrogate: 1-Chlorooctadecane	86.9	% 37.6-14	7					72	

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

11/05/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 34 - 2' (H803191-33)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 69.8-14	2						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	95.5	% 41-142	,						
Surrogate: 1-Chlorooctadecane	88.7	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

11/05/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 35 - 2' (H803191-34)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	102 %	6 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	101 %	6 41-142							
Surrogate: 1-Chlorooctadecane	91.89	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

90.6%

37.6-147

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

11/05/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 36 - 2' (H803191-35)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	95.9 9	% 41-142	1						

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Surrogate: 1-Chlorooctadecane

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Celey to Keine

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

11/05/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 37 - 2' (H803191-36)

BTEX	8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	< 0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
*									

Surrogate: 4-Bromofluorobenzene (PID

104 %

69.8-142

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane

104 %

41-142

Surrogate: 1-Chlorooctadecane

91.1%

37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

86.6 %

37.6-147

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

e:

11/05/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 38 - 2' (H803191-37)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	103 9	% 69.8-142	?						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	172	86.1	200	7.44	
DRO >C10-C28*	<10.0	10,0	11/09/2018	ND	197	98.3	200	8.45	
EXT DRO >C28-C36	<10.0	10,0	11/09/2018	ND					
Surrogate: 1-Chlorooctane	90.4	% 41-142							

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Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

11/05/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 39 - 2' (H803191-38)

|--|

Anal	yzed	Ву:	MS
------	------	-----	----

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0,300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 %	69.8-14	22						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 11/09/2018	Method Blank	BS 400	% Recovery	True Value QC 400	RPD 0.00	Qualifier
•		16.0	11/09/2018			•	_		Qualifier
Chloride	16.0	16.0	11/09/2018	ND		•	_		Qualifier Qualifier
Chloride TPH 8015M	16.0 mg/	16.0 kg	11/09/2018 Analyze	ND d By: MS	400	100	400	0.00	
Chloride TPH 8015M Analyte	16.0 mg/	16.0 kg Reporting Limit	11/09/2018 Analyze Analyzed	ND d By: MS Method Blank	400 BS	100 % Recovery	400 True Value QC	0.00	
Chloride TPH 8015M Analyte GRO C6-C10*	16.0 mg/ Result <10.0	16.0 Reporting Limit 10.0	11/09/2018 Analyze Analyzed 11/09/2018	ND d By: MS Method Blank ND	400 BS 172	100 % Recovery 86.1	400 True Value QC 200	0.00 RPD 7.44	

Surrogate: 1-Chlorooctane

85.8 %

41-142

Surrogate: 1-Chlorooctadecane

82.5 %

37.6-147

Cardinal Laboratories

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Celey L. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN Sampling Date:

ling Date:

11/05/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 40 - 2' (H803191-39)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/09/2018	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	172	86.1	200	7.44	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	197	98.3	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					
Surrogate: 1-Chlorooctane	92.5	% 41-142							
Surrogate: 1-Chlorooctadecane	87.0	% 37.6-14	7						

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Colony D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 40 of 53



Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number:

Project Location:

NONE GIVEN

NOT GIVEN

Sampling Date:

11/05/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 41 - 2' (H803191-40)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.63	81.5	2.00	2.61	
Toluene*	<0.050	0.050	11/09/2018	ND	1.76	88.1	2.00	1.24	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.84	92,2	2.00	0.505	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.56	92.7	6.00	0.118	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	172	86.1	200	7.44	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	197	98.3	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					
Surrogate: 1-Chlorooctane	89.1 9	% 41-142							
Surrogate: 1-Chlorooctadecane	85.2 9	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

11/05/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 42 - 2' (H803191-41)

BTEX 8021B	mg/kg		Analyze	ed By: MS	By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.63	81.5	2.00	2.61	
Toluene*	<0.050	0.050	11/09/2018	ND	1.76	88.1	2.00	1.24	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.84	92,2	2.00	0.505	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.56	92.7	6.00	0.118	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	101	% 69.8-14	2						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	416	104	400	3,92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	172	86.1	200	7.44	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	197	98.3	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					
Surrogate: 1-Chlorooctane	83.5	% 41-142							
Surrogate: 1-Chlorooctadecane	78.7	% 37.6-14.	7						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN

Sampling Date:

11/05/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 43 - 2' (H803191-42)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.63	81.5	2.00	2.61	
Toluene*	<0.050	0.050	11/09/2018	ND	1.76	88.1	2.00	1.24	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.84	92.2	2.00	0.505	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.56	92.7	6.00	0.118	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	172	86.1	200	7.44	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	197	98.3	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					
Surrogate: 1-Chlorooctane	84.2 9	% 41-142							
Surrogate: 1-Chlorooctadecane	82.19	37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

11/05/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 44 - 2' (H803191-43)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.63	81.5	2.00	2.61	
Toluene*	<0.050	0.050	11/09/2018	ND	1.76	88.1	2.00	1.24	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.84	92,2	2.00	0.505	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.56	92.7	6.00	0.118	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	172	86.1	200	7.44	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	197	98.3	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					
Surrogate: 1-Chlorooctane	83.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	80.5	% 37.6-14	7						

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Celey L. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number:

NONE GIVEN NOT GIVEN

Sampling Date:

Sample Received By:

Sampling Type:

Sampling Condition:

11/05/2018 Soil

Cool & Intact Tamara Oldaker

Project Location:

Sample ID: SP 45 - 2' (H803191-44)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.63	81.5	2.00	2.61	
Toluene*	<0.050	0.050	11/09/2018	ND	1.76	88.1	2.00	1.24	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.84	92.2	2.00	0.505	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.56	92.7	6.00	0.118	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 69.8-14	2						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/09/2018	ND	416	104	400	3.92	
TPH 8015M	_ mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	172	86.1	200	7.44	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	197	98.3	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					
Surrogate: 1-Chlorooctane	83.9	% 41-142		×					
Surrogate: 1-Chlorooctadecane	81.2	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

BTEX 8021B

11/06/2018

Reported: Project Name: 11/12/2018

Project Number:

MILLMAN SB ST #2

Project Location:

NONE GIVEN

Sampling Date:

Sample Received By:

Sampling Type: Soil

Sampling Condition:

Cool & Intact

11/05/2018

Tamara Oldaker

NOT GIVEN

mg/kg

Sample ID: SP 46 - 2' (H803191-45)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.63	81.5	2.00	2.61	
Toluene*	<0.050	0.050	11/09/2018	ND	1.76	88.1	2.00	1.24	
Ethylbenzene*	< 0.050	0.050	11/09/2018	ND	1.84	92.2	2.00	0.505	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.56	92.7	6.00	0.118	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Chloride, SM4500Cl-B Analyte	mg/ Result	kg Reporting Limit	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
•					BS 416	% Recovery	True Value QC 400	RPD 3.92	Qualifier
Analyte	Result	Reporting Limit	Analyzed 11/09/2018	Method Blank		,	•		Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 11/09/2018	Method Blank		,	•		Qualifier Qualifier
Analyte Chloride TPH 8015M	Result 32.0 mg/	Reporting Limit 16.0 kg	Analyzed 11/09/2018 Analyze	Method Blank ND d By: MS	416	104	400	3,92	

ND

11/09/2018

Analyzed By: MS

41-142 Surrogate: 1-Chlorooctane 84.8 % Surrogate: 1-Chlorooctadecane 82.4 % 37.6-147

<10.0

10.0

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EXT DRO >C28-C36

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Celey D. Keene, Lab Director/Quality Manager

Page 46 of 53



Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

Sample Received By:

e: 11/05/2018 e: Soil

Sampling Condition:

Cool & Intact

COOI & Intact

Tamara Oldaker

Sample ID: SP 47 - 2' (H803191-46)

BTEX 8021B	mg	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.63	81.5	2.00	2.61	
Toluene*	<0.050	0.050	11/09/2018	ND	1.76	88.1	2.00	1.24	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.84	92.2	2.00	0,505	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.56	92.7	6.00	0.118	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/09/2018	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	172	86.1	200	7.44	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND _	197	98.3	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					
Surrogate: 1-Chlorooctane	80.3	% 41-142							
Surrogate: 1-Chlorooctadecane	76.0	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey Z. Keena

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

600	`	CHECKED BY:	Sample Condition Cool Intact		Delivered By: (Circle One)	Delivered By
Marigue, Cueto (a) white suffuse carry	, d			Time:		
Matalie Glodden @ www.	W. Ore	7	Received By:	_	Sy:	Relinquished By:
hit histologom	CERDANNA.	Walter	Jamara &	15.25 V	A	
☐ Yes ☐ No Add'I Fax #:	Fax Result	Fax	1	Γ,	X	Kelinquisueur
□ No	Phone Result:	Pho	Received By:	Date: R	ssors arising out of or related to the performance	affiliates or successors art
	subsidiaries,	analyses. All chains including those for negligence and any other cases wisdocered shall be deeincu warenu times industriate including those for negligence and any other cases wisdocered shall be facilities, but of the same time of the same tim	nd Emitation, business interruptions, loss	ber cause whatsoever shall be deeme consequental dumages, including witho	sing those for negligence and any or Cardinal be table for incidental or or	analyses. All claims included service. In no event shall to
abe	edient for the	PLEASE NOTE: Liability and Damages. Cardinate stability and directs exclusive remetly for any chair passing whether based in contract or lost, shall be limited to the surroum part by the passing whether based in contract or lost, shall be limited to the surroum part by the passing completion does not be the passing whether based in contract or lost, shall be limited to the surroum part by the passing completion does not be passing to the passing completion of the passing completion	im arising whether based in contract or to	nd client's exclusive remedy for any cla	and Damuges, Cardinal's kability an	PLEASE NOTE: Liability
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	なく	Ch: 10 81/18/07	<	1 N	SP1-2	
	TIME	ICE OTI	# CO GRO WAS SOII OIL SLU	(G)F	100-	161208H
Pyr TP) Hi	D/BAS / COC HER :	STEW		Sample I.D.	Lab I.D.
EX H	OR		NATER	; R (C)OM		
	I (PRESERV. SAMPLING	MATRIX	Р.		FOR LAB USE ONLY
	 	1	Fa	anto	Monorano	Sampler Name:
	72	Phone #: 918-600-049	Ph		2	Project Location:
		State: OK Zip: 1415	as	10 BB	Milliam	ате:
	7	Julia	City: .	Project Owner:		Project #:
	Ave 20	Address: 8908 yale A	Ad	Fax#:		Phone #:
	13.	Attn: Shelle TYPFor		State: Zip:		City:
		Company: What Bul	Cor			Address:
		P.O. #:	P.C		(Project Manager:
ANALISIS NEGOES		BILL 10			1/Anguser	Company Name:
ANALYCIC DECLIECT	and the second				(2.3)	

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

-1.70

Sample Condition
Cool Infact
Pres Pres
No No

9



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(5)	(575) 393-2326 FAX (5/5) 393-24/6	6						
Company Name:	avenaci)		BILL TO	70		ANALYSIS	IS REQUEST	
Project Manager:			P.O. #:					
Address:			Company: White	ite Bullado	-	-		
City:	State:	Zip:	Attn: Steve TYP For In	A	5			
Phone #:	Fax #:		Address; 6906	8908 yale Ave	210			
Project #:	Project Owner:	a	city: Julia	. N.	_			
ame:	driver so st.	lo	State: OK Zip:	74137	<u>S</u>			
Project Location:			Phone #: 918-660-0999	640-0499	Œ			
Sampler Name: 1	lowsest Cuero		Fax #:		<u>,</u>		_	
FOR LAB USE ONLY			MATRIX PRESERV. S	SAMPLING	DR.			
Lab I.D.	Sample I.D.	AB OR (C)O NTAINERS UNDWATER TEWATER	DGE		BIE			
180399	881721	# CC GRC WAS	OTH ACII CE OTH	DATE TIME	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
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8	SPAO -3' Contract liability and client's exclusive remedy for any claim straigh whether based in contract or ton, shall be limited to the amount paid by the client for the	Cany claim arraing whether	sed in contract or ton, shall be limited to the	the arrount paid by the client for t	* / / /		-	-
PLEASE NOTE: Liability and Dairid Inalyses, All claims including those service. In no event shall Cantinal b	e e	e deemed waived unless ma ng wathout familiation, busine	de in writing and received by Cardinal within s interruptions, loss of use, or loss of profits in the such dam is based upon any of the abo	30 days after completion of the incurred by client, its subsidiaria we stated measons or otherwise.	e applicable ies.			
Relinquished By:	a gut of or related by the conformance of servines insteaded by	Received By:	By: Mithe	Phone Result: Fax Result: REMARKS:	sult: □ Yes [☐ No Add'! Phone #:	xne#	
Relinquished By:	Date:	Received By	in saumon	Email.	Matalie.	Gladden	Matalie. Glodden @ white buffelo.com	yalo.com
Delivered By: (Circle One)	(Circle One)	Sair	Sample Condition CHECKED BY:	BY:	Mongu	, cues -		
		} 		_				

Sample Condition
Cool Intact
G-Yes G-Yes
No G-No

9 CHECKED BY: (Initials)

Sampler - UPS - Bus - Other:



November 14, 2018

NATALIE GLADDEN
WHITE BUFFALO
8908 YALE AVE #210
TULSA, OK 74137

RE: MILLMAN SB ST #2

Enclosed are the results of analyses for samples received by the laboratory on 11/08/18 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN Sampling Date:

11/06/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SW 1 - 2' (H803240-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2,24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2,00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.23	112	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	101	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	102	% 41-142)						
Surrogate: 1-Chlorooctadecane	91.1	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celeg thema

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 20



Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

11/06/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SW 2 - 2' (H803240-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.23	112	2,00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6,00	6,22	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC			.0		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	288	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	138	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	96.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	99.5	% 37.6-14	7						

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 20



Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

11/06/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SW 3 - 2' (H803240-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.23	112	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	103 9	% 41-142							
Surrogate: 1-Chlorooctadecane	91.4	% 37.6-14	7						

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Celeg to treme-

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 20



Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

11/06/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SW 4 - 2' (H803240-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2,24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.23	112	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.8	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND.					
Surrogate: 1-Chlorooctane	98.5	% 41-142							
Surrogate: 1-Chlorooctadecane	90.7	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 20



Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

11/06/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SW 5 - 2' (H803240-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.23	112	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	B\$	% Recovery	True Value QC	RPD	Qualifler
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	96.3	% 41-142	!						
Surrogate: 1-Chlorooctadecane	89.3	% 37.6-14	7						

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College Therman

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 20



Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN

Sampling Date:

11/06/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SW 6 - 2' (H803240-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.23	112	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND .	6.57	110	6.00	6.22	
Total BTEX	<0,300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	101 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	102 9	% 41-142							
Surrogate: 1-Chlorooctadecane	95.2	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celleg L. treens

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

11/06/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SW 7 - 2' (H803240-07)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.23	112	2.00	5,81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6,22	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	102	% 41-142	?						
Surrogate: 1-Chlorooctadecane	94.0	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN

Sampling Date:

11/06/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SW 8 - 2' (H803240-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2,23	112	2.00	5.81	
Total Xylenes*	<0.150	0,150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	98.2	% 41-142	!						
Surrogate: 1-Chlorooctadecane	90.4	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN

Sampling Date:

11/06/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

NOT GIVEN

Sample ID: SW 9 - 2' (H803240-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.23	112	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.89	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	106 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	97.69	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

95.9 %

37.6-147

Sampling Date:

11/07/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SW 10 - 2' (H803240-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	< 0.050	0.050	11/13/2018	ND	2.23	112	2.00	5,81	
Total Xylenes*	<0,150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	103 %	6 41-142	1						

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Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NOT GIVEN

NONE GIVEN

Sampling Date:

11/07/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SW 11 - 2' (H803240-11)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2,23	112	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100	% 69.8-14	22						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	97,8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	91.1	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

11/07/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SW 12 - 2' (H803240-12)

BTEX 8021B	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.23	112	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6,22	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	101	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	92.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	79.9	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 **TULSA OK, 74137** Fax To:

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN

Sampling Date:

11/07/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

NOT GIVEN

Sample ID: SW 13 - 2' (H803240-13)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2018	ND	2.48	124	2.00	1.94	
Toluene*	<0.050	0.050	11/14/2018	ND	2.41	120	2.00	1.28	
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.35	118	2.00	2,21	
Total Xylenes*	<0.150	0.150	11/14/2018	ND	7.33	122	6.00	1.96	
Total BTEX	<0.300	0.300	11/14/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	69 8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	98.8 9	% 41-142							
Surrogate: 1-Chlorooctadecane	83,29	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

11/07/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SW 14 - 2' (H803240-14)

BTEX 8021B	mg,	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2018	ND	2.48	124	2.00	1.94	
Toluene*	<0.050	0.050	11/14/2018	ND	2.41	120	2.00	1.28	
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.35	118	2.00	2.21	
Total Xylenes*	<0.150	0.150	11/14/2018	ND	7.33	122	6.00	1.96	
Total BTEX	<0,300	0.300	11/14/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	104	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	99.5	% 41-142	!						
Surrogate: 1-Chlorooctadecane	85.0	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/08/2018

Reported:

RTFY 8021B

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN

ma/ka

Sampling Date:

11/07/2018

Sampling Type:

Soil

6.00

1.96

Sampling Condition: Sample Received By:

122

Cool & Intact

Jodi Henson

Sample ID: SW 15 - 2' (H803240-15)

DILAGOZID	9	,9	711141720						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2018	ND	2.48	124	2.00	1.94	
Toluene*	<0.050	0.050	11/14/2018	ND	2.41	120	2.00	1.28	
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.35	118	2.00	2.21	

Analyzed By: ms

Total Xylenes* <0.150 0.150 11/14/2018 ND 7.33

Total BTEX <0.300 0.300 11/14/2018 ND

Surrogate: 4-Bromofluorobenzene (PIL

105 %

69.8-142

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					

Surrogate: 1-Chlorooctane

93.8 %

41-142

Surrogate: 1-Chlorooctadecane

78.5 %

37.6-147

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Celeg t. Keens

Celey D. Keene, Lab Director/Quality Manager

Page 16 of 20



Analytical Results For:

WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN

Sampling Date:

11/07/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SW 22 - 2' (H803240-16)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2018	ND	2.48	124	2.00	1.94	
Toluene*	<0.050	0.050	11/14/2018	ND	2.41	120	2.00	1.28	
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.35	118	2.00	2.21	
Total Xylenes*	<0.150	0.150	11/14/2018	ND	7.33	122	6.00	1.96	
Total BTEX	<0.300	0.300	11/14/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10,0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	100 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	84.2	% 37.6-14	7						

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Celey T. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 17 of 20



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Time:

Cardinal ranged arrant varial changes. Plaaca for written changes to 15751 361-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Vanauage		BILL 70	ANALYSIS REQUEST
Project Manager:		P.O. #:	
Address: 4001 Lembrack St. S	Stu. 201	company: White Bullal	
city: Odesso State: TX	LX ZD: 19765	Attn: Steve TYPE Fortin	
Phone #: Fax #:		Address: 8908 Vale Ave #	
Project #: Project Owner:		city: Julia	
Project Name: Trilleman SB State	te+2	State: OK Zip: 74137	
Project Location:		Phone #: 918-660-0999	
Sampler Name: Morgani Custo		Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	do
Lab I.D. Sample I.D.	OR (C)OMF AINERS DWATER WATER	: ASE: DOL	lori
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising valether based in contract or fort, shall be limited to the amount paid by the client for the	ly claim arising whether based in contrac	ct or tert, shall be limited to the amount paid by the client to	7 156

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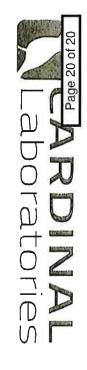
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Fax Result:

REMARKS: 3901 Date: Received By: Sample Condition
Cool Intact
Yes Yes
No No Email Matalie. Gladden @ white buffalo.com Mongue. Cueto @ white buffalo.com ☐ Yes ☐ No Add'I Phone #:
☐ Yes ☐ No Add'I Fax #:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

State: TX ZID: T971/2 Attn: Steve TYPETOTIAN Frax #: Address: BAR Uple AVETOR FAX #: Phone # 918-1640-0999 PARESERVI SAMPLING PRESERVI SAMPLING OTHERS OIL OUTHERS OIL O	Company Name:	Vanauand								8		3)14=10=	0							A	ANALYSIS	SIS		REQUEST	Ü	4					
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Sampler-UPS - Bus - Other: -3.9c

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Delivered By: (Circle One)

Date: Time:

Beceived By:

Email: Matalie. Gladden @ white buffalo.com Monique. Cueto @ white buffalo.com Refinduished By:

Time:

Received By:

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

-				ANALYSIS DECIDENT	
Company Name:	Vertaured		BILL IO	ANALISIS NEGOLO	
Project Manager:			P.O. #:		
Address:			Company: White Du		
City:	State:	Zip:	Attn: Shelle TYPFor	3	
Phone #:	Fax#:		Address: 8908 Valle	AVE: 200	
Project #:	Project Owner:	3	city: Julia		
Project Name: MAN MAN	CIMPS NO VI	φ	State: OK Zip: 74/	57	
Project Location:			Phone #: 918-660-0994	1999 N	
Sampler Name:	Unsure ans		Fax #:	e -	
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Sample Condition
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CHECKED BY: (Initials) 9

Matalie. Gladden @ white buffalo.com Mongue. Cueto @ white buffalo.com

Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By-

Date:

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes ☐ No |Add'I Phone #:

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Matalie. Gladden @ white buffelo.com Mongue. Cueto @ white buffelo.com

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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Phone #:	Fax #:			Address: 8	108 yale An	JE# 210					
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ame:	MELLINAN 505 O	7		State: OK Zip: 74	ZID: 74137						
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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Project Manager:	d		7	P.O. #:				_				
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analyses. All claims including those for negligence and any other cause whatsoever shall be deemed service. In no event shall Cardinal be liable for incidental or consequental damages, including without Relinquished By: Delivered By: (Circle One) Time: 75.25 81-9-18 Received By: Sample Condition made in writing and received by Cardinal within 30 days after completion of the applicable ness interruptions, loss of use, or loss of profits incurred by client, its substituties. CHECKED BY: (Initials) REMARKS: Phone Result: Fax Result: Email. ☐ Yes ☐ No | Add"! Phone #:

Matalie. Gladden @ white buffelo.com Mongue. Gueto @ white buffelo.com



Analytical Report

Report Summary

Client: Grizzly Energy

Samples Received: 6/11/2020 Job Number: 19054-0003 Work Order: P006036

Project Name/Location: Millman Sb State #2

Report Reviewed By:	Waltet Hinkman	Date:	6/12/20	
-				

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.

Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.

Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.





Grizzly Energy Project Name: Millman Sb State #2

4001 Penbrook Suite 201Project Number:19054-0003Reported:Odessa TX, 79762Project Manager:Eddie Gaytan06/12/20 15:20

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sw2 3'	P006036-01A	Soil	06/09/20	06/11/20	Glass Jar, 4 oz.
Sw2 4'	P006036-02A	Soil	06/09/20	06/11/20	Glass Jar, 4 oz.



Grizzly Energy

Project Name:

Millman Sb State #2

4001 Penbrook Suite 201 Odessa TX, 79762 Project Number: 19054-0003 Project Manager: Eddie Gaytan **Reported:** 06/12/20 15:20

Sw2 3' P006036-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units I	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021B									
Benzene	ND	0.0250	mg/kg 1		2024013	06/11/20	06/11/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1		2024013	06/11/20	06/11/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1		2024013	06/11/20	06/11/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1		2024013	06/11/20	06/11/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1		2024013	06/11/20	06/11/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1		2024013	06/11/20	06/11/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %	50-150)	2024013	06/11/20	06/11/20	EPA 8021B	
Nonhalogenated Organics by EPA 8015D	- DRO/ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		2024014	06/11/20	06/11/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		2024014	06/11/20	06/11/20	EPA 8015D	
Surrogate: n-Nonane		89.0 %	50-200)	2024014	06/11/20	06/11/20	EPA 8015D	
Nonhalogenated Organics by EPA 8015D	- GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		2024013	06/11/20	06/11/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	50-150)	2024013	06/11/20	06/11/20	EPA 8015D	
Anions by EPA 300.0/9056A									
Chloride	ND	20.0	mg/kg 1		2024016	06/11/20	06/11/20	EPA 300.0/9056A	



Grizzly Energy

Project Name:

Millman Sb State #2

4001 Penbrook Suite 201 Odessa TX, 79762 Project Number: 19054-0003 Project Manager: Eddie Gaytan **Reported:** 06/12/20 15:20

Sw2 4' P006036-02 (Solid)

		Reporting	20 02 (20114)					
Analyte	Result	Limit	Units D	ilution Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021B								
Benzene	ND	0.0250	mg/kg 1	202401	3 06/11/20	06/11/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1	202401	3 06/11/20	06/11/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1	202401	3 06/11/20	06/11/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1	202401	3 06/11/20	06/11/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1	202401	3 06/11/20	06/11/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1	202401	3 06/11/20	06/11/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %	50-150	202401	3 06/11/20	06/11/20	EPA 8021B	
Nonhalogenated Organics by EPA 8015D	- DRO/ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	202401	4 06/11/20	06/11/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	202401	4 06/11/20	06/11/20	EPA 8015D	
Surrogate: n-Nonane		88.1 %	50-200	202401	4 06/11/20	06/11/20	EPA 8015D	
Nonhalogenated Organics by EPA 8015D	- GRO							
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	202401	3 06/11/20	06/11/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.8 %	50-150	202401	3 06/11/20	06/11/20	EPA 8015D	
Anions by EPA 300.0/9056A								
Chloride	ND	20.0	mg/kg 1	202401	6 06/11/20	06/11/20	EPA 300.0/9056A	



Analyte

Grizzly Energy Project Name: Millman Sb State #2

Result

4001 Penbrook Suite 201Project Number:19054-0003Reported:Odessa TX, 79762Project Manager:Eddie Gaytan06/12/20 15:20

Volatile Organics by EPA 8021B - Quality Control

Envirotech Analytical Laboratory

Units

Spike

Level

Source

Result

%REC

Reporting

%REC

Limits

RPD

RPD

Limit

Notes

Blank (2024013-BLK1)				Prepared &	Analyzed:	06/11/20)
Benzene	ND	0.0250	mg/kg				
Toluene	ND	0.0250	"				
Ethylbenzene	ND	0.0250	"				
p,m-Xylene	ND	0.0500	"				
o-Xylene	ND	0.0250	"				
Total Xylenes	ND	0.0250	"				
Surrogate: 4-Bromochlorobenzene-PID	8.17		"	8.00		102	50-150
LCS (2024013-BS1)				Prepared: 0	6/11/20 0 A	Analyzed: (06/11/20 1
Benzene	5.27	0.0250	mg/kg	5.00		105	70-130
Toluene	5.25	0.0250	"	5.00		105	70-130
Ethylbenzene	5.22	0.0250	"	5.00		104	70-130
p,m-Xylene	10.5	0.0500	"	10.0		105	70-130
o-Xylene	5.24	0.0250	"	5.00		105	70-130
Total Xylenes	15.7	0.0250	"	15.0		105	0-200
Surrogate: 4-Bromochlorobenzene-PID	8.56		"	8.00		107	50-150
Matrix Spike (2024013-MS1)	Source	e: P006026-	01	Prepared: 0	6/11/20 0 A	Analyzed: (06/11/20 1
Benzene	5.27	0.0250	mg/kg	5.00	ND	105	54.3-133
Toluene	5.25	0.0250	"	5.00	ND	105	61.4-130
Ethylbenzene	5.23	0.0250	"	5.00	ND	105	61.4-133
p,m-Xylene	10.4	0.0500	"	10.0	ND	104	63.3-131
o-Xylene	5.22	0.0250	"	5.00	ND	104	63.3-131
Total Xylenes	15.6	0.0250	"	15.0	ND	104	0-200
Surrogate: 4-Bromochlorobenzene-PID	8.27		"	8.00		103	50-150

Matrix Spike Dup (2024013-MSD1)	Sourc	e: P006026-	01	Prepared: (06/11/20 0 A	Analyzed: (06/11/20 1			
Benzene	5.10	0.0250	mg/kg	5.00	ND	102	54.3-133	3.34	20	
Toluene	5.05	0.0250	"	5.00	ND	101	61.4-130	3.87	20	
Ethylbenzene	5.03	0.0250	"	5.00	ND	101	61.4-133	3.84	20	
p,m-Xylene	10.0	0.0500	"	10.0	ND	100	63.3-131	3.87	20	
o-Xylene	5.02	0.0250	"	5.00	ND	100	63.3-131	3.89	20	
Total Xylenes	15.1	0.0250	"	15.0	ND	100	0-200	3.88	200	
Surrogate: 4-Bromochlorobenzene-PID	8.46		"	8.00		106	50-150			

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Grizzly Energy Project Name:

4001 Penbrook Suite 201Project Number:19054-0003Reported:Odessa TX, 79762Project Manager:Eddie Gaytan06/12/20 15:20

Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

Millman Sb State #2

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2024014 - DRO Extraction EPA 3570										
Blank (2024014-BLK1)				Prepared &	k Analyzed:	06/11/20)			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	43.8		"	50.0		87.6	50-200			
LCS (2024014-BS1)				Prepared: (06/11/20 0	Analyzed: (06/11/20 1			
Diesel Range Organics (C10-C28)	431	25.0	mg/kg	500		86.2	38-132			
Surrogate: n-Nonane	46.6		"	50.0		93.1	50-200			
Matrix Spike (2024014-MS1)	Sou	rce: P006026-	01	Prepared: (06/11/20 0	Analyzed: (06/11/20 1			
Diesel Range Organics (C10-C28)	3660	125	mg/kg	500	3740	NR	38-132			M4
Surrogate: n-Nonane	56.6		"	50.0		113	50-200			
Matrix Spike Dup (2024014-MSD1)	Sou	rce: P006026-	01	Prepared: (06/11/20 0	Analyzed: (06/11/20 1			
Diesel Range Organics (C10-C28)	4300	125	mg/kg	500	3740	111	38-132	16.0	20	M4
Surrogate: n-Nonane	56.9		"	50.0		114	50-200			





 4001 Penbrook Suite 201
 Project Number:
 19054-0003
 Reported:

 Odessa TX, 79762
 Project Manager:
 Eddie Gaytan
 06/12/20 15:20

Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2024013 - Purge and Trap EPA 50	30A									
Blank (2024013-BLK1)		Prepared & Analyzed: 06/11/20 0								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		"	8.00		91.1	50-150			
LCS (2024013-BS2)				Prepared: 0	6/11/20 0	Analyzed: 0	06/11/20 1			
Gasoline Range Organics (C6-C10)	47.7	20.0	mg/kg	50.0		95.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		"	8.00		92.1	50-150			
Matrix Spike (2024013-MS2)	Source	: P006026-	01	Prepared: 0	6/11/20 0	Analyzed: 0	06/11/20 1			
Gasoline Range Organics (C6-C10)	51.3	20.0	mg/kg	50.0	ND	103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		"	8.00		92.7	50-150			
Matrix Spike Dup (2024013-MSD2)	Source	: P006026-	01	Prepared: 0	6/11/20 0	Analyzed: 0	06/11/20 1			
Gasoline Range Organics (C6-C10)	49.5	20.0	mg/kg	50.0	ND	99.1	70-130	3.61	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		"	8.00		93.0	50-150			



Project Name:

Reporting

Millman Sb State #2

Spike

Source

%REC

4001 Penbrook Suite 201 Odessa TX, 79762 Project Number: 19054-0003 Project Manager: Eddie Gaytan **Reported:** 06/12/20 15:20

RPD

Anions by EPA 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2024016 - Anion Extraction EPA 30).0/9056A									
Blank (2024016-BLK1)				Prepared: (06/11/20 0	Analyzed: 0	6/11/20 1			
Chloride	ND	20.0	mg/kg							
LCS (2024016-BS1)				Prepared: (06/11/20 0	Analyzed: 0	6/11/20 1			
Chloride	251	20.0	mg/kg	250		100	90-110			
Matrix Spike (2024016-MS1)	Source	e: P006036-	01	Prepared: (06/11/20 0	Analyzed: 0	6/11/20 1			
Chloride	254	20.0	mg/kg	250	ND	102	80-120			
Matrix Spike Dup (2024016-MSD1)	Source	e: P006036-	01	Prepared: (06/11/20 0	Analyzed: 0	6/11/20 1			
Chloride	252	20.0	mg/kg	250	ND	101	80-120	1.05	20	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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4001 Penbrook Suite 201Project Number:19054-0003Reported:Odessa TX, 79762Project Manager:Eddie Gaytan06/12/20 15:20

Notes and Definitions

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

Client: Grizzly Energy Project: Millman Sb State #2					Report Attention			Lab Use Only									EPA Program				
						port due by: HUNGRY HOF	RSE LLC		Lab	WO#	†			Numl			1D	3D	RCR/		
Project N	lanager:	Eddie Ga	ytan		Att	tention: EDDIE GAYTAN	100		P	0	902	علا	190	HZ	·cox	3	X				SD/ G
Address:					Ad	dress: 4024 PLAINS HWY	186						Analy							St	ate
City, Stat	e, Zip				Cit	y, State, Zip	114		15	15										NM CO	UT AZ
Phone: (575) 441-	-0212			Ph	one: (575) 441-0212			/ 80	, 8015	-1		0.0								
Email: E	GAYTAN@	HUNGR	-HORSE	COM	Em	nail: EGAYTAN@HUNGRY	-HORSE	.COM	d O	O b	802	8260	300		05	Σ	×			×	
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID		7 7 7		Lab Number	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0		TCEQ 1005	BGDOC - NM	BGDOC - TX				marks
9:20	6/9/20	S	(Sw2 3	3'			1								х					
9:27	1	1	l	Sw2 4	ļ'		T.	2								х					
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																				-	
Addition	al Instruc	tions:				110	, ,	>													
CONTRACTOR CONTRACTOR			STREET, TANK	his sample. I ar		ring with or intentionally prislabeling the s	ample locati	on, date or		_										the day they are sa on subsequent day	
Cale	ed by: (Signa			12020	Time 1120	Received by: (Signature)	5	Date 6 · 10 · 2		Time	120	0	Rece	ived	on ic	e:	\sim	b Us	e Only		
Relinquish	ed by: (Signa	ature)	Date 6	10.2020	Time 1530	received by: (Signature)	alls	Date (9/11/6	30	Time	:45	5	T1 AVG	Tem	p °C	4	T2			<u>T3</u>	
Sample Mat	rix: S - Soil, So	d - Solid, Sg -		queous, O - O		June Con	- N.	Container	Туре	: g - g	glass,					mber	glas	s, v -	VOA		
						gements are made. Hazardous sample	es will be r	eturned to cli	ent or											bove samples i	s applicable



Analytical Report

Report Summary

Client: Grizzly Energy

Samples Received: 6/11/2020 Job Number: 19054-0003 Work Order: P006036

Project Name/Location: Millman Sb State #2

Report Reviewed By:	Walter Hinkman	Date:	6/12/20	
		_		

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.

Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.

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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.

Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.





4001 Penbrook Suite 201Project Number:19054-0003Reported:Odessa TX, 79762Project Manager:Eddie Gaytan06/12/20 15:20

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sw2 3'	P006036-01A	Soil	06/09/20	06/11/20	Glass Jar, 4 oz.
Sw2 4'	P006036-02A	Soil	06/09/20	06/11/20	Glass Jar, 4 oz.



Project Name:

Millman Sb State #2

4001 Penbrook Suite 201 Odessa TX, 79762 Project Number: 19054-0003 Project Manager: Eddie Gaytan Reported:

06/12/20 15:20

Sw2 3' P006036-01 (Solid)

		Reporting	· · · · ·						
Analyte	Result	Limit	Units D	ilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021B									
Benzene	ND	0.0250	mg/kg 1		2024013	06/11/20	06/11/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1		2024013	06/11/20	06/11/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1		2024013	06/11/20	06/11/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1		2024013	06/11/20	06/11/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1		2024013	06/11/20	06/11/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1		2024013	06/11/20	06/11/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %	50-150		2024013	06/11/20	06/11/20	EPA 8021B	
Nonhalogenated Organics by EPA 8015I	- DRO/ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		2024014	06/11/20	06/11/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		2024014	06/11/20	06/11/20	EPA 8015D	
Surrogate: n-Nonane		89.0 %	50-200		2024014	06/11/20	06/11/20	EPA 8015D	
Nonhalogenated Organics by EPA 8015I	- GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		2024013	06/11/20	06/11/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	50-150		2024013	06/11/20	06/11/20	EPA 8015D	
Anions by EPA 300.0/9056A									
Chloride	ND	20.0	mg/kg 1		2024016	06/11/20	06/11/20	EPA 300.0/9056A	



Project Name:

Millman Sb State #2

4001 Penbrook Suite 201 Odessa TX, 79762 Project Number: Project Manager: 19054-0003 Eddie Gaytan **Reported:** 06/12/20 15:20

Sw2 4' P006036-02 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021B									
Benzene	ND	0.0250	mg/kg 1		2024013	06/11/20	06/11/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1		2024013	06/11/20	06/11/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1		2024013	06/11/20	06/11/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1		2024013	06/11/20	06/11/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1		2024013	06/11/20	06/11/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1		2024013	06/11/20	06/11/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %	50-15	0	2024013	06/11/20	06/11/20	EPA 8021B	_
Nonhalogenated Organics by EPA 8015D	- DRO/ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		2024014	06/11/20	06/11/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		2024014	06/11/20	06/11/20	EPA 8015D	
Surrogate: n-Nonane		88.1 %	50-20	0	2024014	06/11/20	06/11/20	EPA 8015D	
Nonhalogenated Organics by EPA 8015D	- GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		2024013	06/11/20	06/11/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.8 %	50-15	0	2024013	06/11/20	06/11/20	EPA 8015D	
Anions by EPA 300.0/9056A									
Chloride	ND	20.0	mg/kg 1		2024016	06/11/20	06/11/20	EPA 300.0/9056A	



Analyte

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

o-Xylene

Grizzly Energy Project Name: Millman Sb State #2

4001 Penbrook Suite 201Project Number:19054-0003Reported:Odessa TX, 79762Project Manager:Eddie Gaytan06/12/20 15:20

Reporting

Pocult

10.0

5.02

15.1

8.46

0.0500

0.0250

0.0250

Limit

Volatile Organics by EPA 8021B - Quality Control

Envirotech Analytical Laboratory

Unite

Spike

Level

10.0

5.00

15.0

8.00

ND

ND

ND

100

100

100

106

63.3-131

63.3-131

0-200

50-150

Source

Pacult

%PEC

%REC

Limite

DDD

3.87

3.89

3.88

20

20

200

RPD

Limit

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2024013 - Purge and Trap EPA 50	30A									
Blank (2024013-BLK1)				Prepared &	: Analyzed:	06/11/20 0)			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
o,m-Xylene	ND	0.0500	"							
p-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.17		"	8.00		102	50-150			
LCS (2024013-BS1)				Prepared: (06/11/20 0 A	Analyzed: 0	6/11/20 1			
Benzene	5.27	0.0250	mg/kg	5.00		105	70-130			
Toluene	5.25	0.0250	"	5.00		105	70-130			
Ethylbenzene	5.22	0.0250	"	5.00		104	70-130			
o,m-Xylene	10.5	0.0500	"	10.0		105	70-130			
p-Xylene	5.24	0.0250	"	5.00		105	70-130			
Total Xylenes	15.7	0.0250	"	15.0		105	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.56		"	8.00		107	50-150			
Matrix Spike (2024013-MS1)	Sour	ce: P006026-	01	Prepared: (06/11/20 0 A	Analyzed: 0	6/11/20 1			
Benzene	5.27	0.0250	mg/kg	5.00	ND	105	54.3-133			
Toluene	5.25	0.0250	"	5.00	ND	105	61.4-130			
Ethylbenzene	5.23	0.0250	"	5.00	ND	105	61.4-133			
o,m-Xylene	10.4	0.0500	"	10.0	ND	104	63.3-131			
p-Xylene	5.22	0.0250	"	5.00	ND	104	63.3-131			
Total Xylenes	15.6	0.0250	"	15.0	ND	104	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.27		"	8.00		103	50-150			
Matrix Spike Dup (2024013-MSD1)	Sour	ce: P006026-	01	Prepared: (06/11/20 0 A	Analyzed: 0	6/11/20 1			
Benzene	5.10	0.0250	mg/kg	5.00	ND	102	54.3-133	3.34	20	
Toluene	5.05	0.0250	"	5.00	ND	101	61.4-130	3.87	20	
Ethylbenzene	5.03	0.0250	"	5.00	ND	101	61.4-133	3.84	20	

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Project Name:

Millman Sb State #2

4001 Penbrook Suite 201 Odessa TX, 79762 Project Number: 19054-0003 Project Manager: Eddie Gaytan **Reported:** 06/12/20 15:20

Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2024014 - DRO Extraction EPA 3570										
Blank (2024014-BLK1)				Prepared &	Analyzed:	06/11/20 0)			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	43.8		"	50.0		87.6	50-200			
LCS (2024014-BS1)				Prepared: (06/11/20 0 A	Analyzed: (06/11/20 1			
Diesel Range Organics (C10-C28)	431	25.0	mg/kg	500		86.2	38-132			
Surrogate: n-Nonane	46.6		"	50.0		93.1	50-200			
Matrix Spike (2024014-MS1)	Sou	rce: P006026-	01	Prepared: (06/11/20 0 A	Analyzed: (06/11/20 1			
Diesel Range Organics (C10-C28)	3660	125	mg/kg	500	3740	NR	38-132			M4
Surrogate: n-Nonane	56.6		"	50.0		113	50-200			
Matrix Spike Dup (2024014-MSD1)	Sou	rce: P006026-	01	Prepared: (06/11/20 0 A	Analyzed: (06/11/20 1			
Diesel Range Organics (C10-C28)	4300	125	mg/kg	500	3740	111	38-132	16.0	20	M4
Surrogate: n-Nonane	56.9		"	50.0		114	50-200			



4001 Penbrook Suite 201Project Number:19054-0003Reported:Odessa TX, 79762Project Manager:Eddie Gaytan06/12/20 15:20

Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Datch 2024012 Dungs and Tran EDA 5020										

Batch 2024013 - Purge and Trap EPA 50	30A									
Blank (2024013-BLK1)				Prepared &	Analyzed:	06/11/20 0)			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		"	8.00		91.1	50-150			
LCS (2024013-BS2)										
Gasoline Range Organics (C6-C10)	47.7	20.0	mg/kg	50.0		95.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		"	8.00		92.1	50-150			
Matrix Spike (2024013-MS2)	Source	: P006026-	01	Prepared: 0	6/11/20 0 A					
Gasoline Range Organics (C6-C10)	51.3	20.0	mg/kg	50.0	ND	103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		"	8.00		92.7	50-150			
Matrix Spike Dup (2024013-MSD2)	Source	: P006026-	01	Prepared: 0	6/11/20 0 A	Analyzed: 0	06/11/20 1			
Gasoline Range Organics (C6-C10)	49.5	20.0	mg/kg	50.0	ND	99.1	70-130	3.61	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		"	8.00		93.0	50-150			

Project Name:

Reporting

Millman Sb State #2

Spike

Source

%REC

4001 Penbrook Suite 201 Odessa TX, 79762 Project Number: 19054-0003 Project Manager: Eddie Gaytan **Reported:** 06/12/20 15:20

RPD

Anions by EPA 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2024016 - Anion Extraction EPA 300.	.0/9056A									
Blank (2024016-BLK1)				Prepared: (06/11/20 0	Analyzed: 0	6/11/20 1			
Chloride	ND	20.0	mg/kg							
LCS (2024016-BS1)				Prepared: (06/11/20 0	Analyzed: 0	6/11/20 1			
Chloride	251	20.0	mg/kg	250		100	90-110			
Matrix Spike (2024016-MS1)	atrix Spike (2024016-MS1) Source: P006036-01 Prepared: 06/11.									
Chloride	254	20.0	mg/kg	250	ND	102	80-120			
Matrix Spike Dup (2024016-MSD1)	ASD1) Source: P006036-01 Prepared: 06/11/20 0 Analyzed: 06/11/20 1									
Chloride	252	20.0	mg/kg	250	ND	101	80-120	1.05	20	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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4001 Penbrook Suite 201Project Number:19054-0003Reported:Odessa TX, 79762Project Manager:Eddie Gaytan06/12/20 15:20

Notes and Definitions

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

Client: Grizzly Energy						Report Attention Lab Use Only								TAT EPA Program													
Project: Millman Sb State #2					Rep	Report due by: HUNGRY HORSE LLC				Lab WO# Job Numb							1D		RC		CWA	SD\ Q					
Project Manager: Eddie Gaytan					Atte	Attention: EDDIE GAYTAN					Pr	30	OZ	30	19054.0003				X					SD/ o			
Address:					Add	Address: 4024 PLAINS HWY								Analysis and Method								State					
City, State, Zip						City	City, State, Zip					15	15												UT AZ		
Phone: (575) 441-0212					Phone: (575) 441-0212					/ 80	/ 80	н		0.0													
Email: E	GAYTAN@	HUNGRY	-HORSE.							ORSE.	СОМ	0 b	O by	802	3260	300		05	Σ	×				×			
Time	Date	Matrix	No	Sample	- ID						1	Lab	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0		TCEQ 1005	BGDOC - NM	BGDOC - TX				Remarks		
Sampled	Sampled		Containers									Number	DR	GR	ВТЕ	9	ਨ		TCE	BGE	BGI				Ken	Idiks	
9:20	6/9/20	S	(Sw2	3'															Х					h		
9:27	1	l	1	Sw2	4'						Total Control	4								х							
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Addition	al Instruc	tions																									
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I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the saltime of collection is considered fraud and may be grounds for legal action. Sampled by:					ing the sam	ple locatio	on, date or							reservation must be received on ice the day they are sampled or avg temp above 0 but less than 6 °C on subsequent days.													
Relinguished by: (Signature) Date Time Received by: (Signature)							Date Time Lab Use Only																				
Relinquished by: (Signature) Date Time Received by: (Signature)							6 · /0 · 2o 2o 1/2 Received on ice: YY N																				
6.10.2020 1530					Va	HU	cha	US	$\bigcup_{Q \in \mathbb{N}} \bigcup_{Q \in \mathbb{N}} \bigcup_{$						T3												
	rix: S - Soil, S c										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																
	les are discard												ient or	dispos	sed of a	at the o	lient ex	pense	. The r	report	for the	analy	sis of th	ne abo	ve samples is	applicable	
only to thos	e samples red	eived by the	laboratory w	vith this Co	OC. The liab	lity of the	laborator	y is limite	ed to the a	mount pa	id for on	the report.														or or	

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envirotech-inc.com labadmin@envirotech-inc.com



BEFORE PHOTOS









DURING PHOTOS





















FINAL PHOTOS













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	1 480 100 01 1
Incident ID	NMAP1826969177
District RP	2RP-4983
Facility ID	N/A
Application ID	pMAP1826968910

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC										
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)										
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)										
□ Description of remediation activities										
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification with 19.15	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.									
Printed Name: Carmen E Pitt										
Signature: Carmen Pitt	Date: 6/17/2020									
email: cpitt@grizzlyenergyllc.com	Telephone: 432-248-8145									
OCD Only										
Received by:	Date:									
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.									
Closure Approved by:	Date:									
Printed Name:	Title:									