

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	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,

Guidsey algado

Lindsey Salgado Project Manager Hungry Horse, LLC 4024 Plains Highway Lovington, NM 88260 Cell: (432) 241-2480 Email: Isalgado@hungry-horse.com

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

)

Page 6 of 133

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

Release Notification

Responsible Party

Responsible Party Vanguard Operating, LLC	OGRID 258350
Contact Name Jason Fisher	Contact Telephone 505—918-0523
Contact email jfisher@vnrenergy.com	Incident # (assigned by OCD) NMAP1826969177
Contact mailing address 4001 Penbrooke Suite 201 Odessa, TX 79762	

Location of Release Source

Latitude 32.658802

Longitude -104.1830902 (NAD 83 in decimal degrees to 5 decimal places)

Site Name Millman SB State #2	Site Type Well Site
Date Release Discovered 9-11-2018	API# 30-015-24756

Unit Letter	Section	Township	Range	County
K	16	19S	28E	Eddy

Surface Owner: State Federal Tribal Private (Name: ____

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific 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 the produced water >10,000 mg/l?	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)
area was sprayed by oil o	 rell was hit by an offset frac causing the separator to or on and off pad. The oil was estimated by calculating t raping and stockpiling the soil. TRC will begin sample	

	20 2:47:07 PM State of New Mexico	Incident ID	Pag NMAP1826969177
Page 2	Oil Conservation Division	District RP	2RP-4983
50.2			
		Facility ID	N/A
		Application ID	pMAP1826968910
19.15.29.7(A) NMAC? X Yes 🗌 No			

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \boxtimes The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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:Chuck Johnston	Title:EHS Operations Specialist
Signature:	Date:9-24-2018
email:cjohnston@vnrenergy.com	Telephone:432-202-4771
OCD Only Received by:	Date: 09/26/18

From:	Pruett, Maria, EMNRD
То:	Bratcher, Mike, EMNRD; Chuck Johnston
Cc:	<u>Mann, Ryan</u>
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,

Maria Pruett

Environmental Specialist 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 <<u>mike.bratcher@state.nm.us</u>>
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

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Page 10 of 133

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K	16	19S	28E	Eddy

Surface Owner: State Federal Tribal Private (Name: ____

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific 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 the produced water >10,000 mg/l?	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)	
area was sprayed by oil	vell was hit by an offset frac causing the separator to c on and off pad. The oil was estimated by calculating raping and stockpiling the soil. TRC will begin samp		

eceived by OCD: 6/17/2	D20 2:47:07 PM State of New Mexico	Page 11		
	Oil Conservation Division	Incident ID	NMAP1826969177	
Page 2		District RP	2RP-4983	
		Facility ID	N/A	
		Application ID	pMAP1826968910	
release as defined by 19.15.29.7(A) NMAC? X Yes 🗌 No	Greater than 25 bbls.			
-	otice given to the OCD? By whom? To whom? When to Mike Bratcher by email 9-12-2018 5:04 pm.	and by what means (phone, em	ail, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \boxtimes The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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:Chuck Johnston	Title:EHS Operations Specialist
Signature:	Date:9-24-2018
email:cjohnston@vnrenergy.com	Telephone:432-202-4771
OCD Only Received by:	Date: 09/26/18

Page 3

Incident ID	
District RP	
Facility ID	
Application ID	

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?	<u>377'</u> (ft bgs)	
Did this release impact groundwater or surface water?		
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 wells.
 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
- \boxtimes Topographic/Aerial maps
- Laboratory data including chain of custody

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 State of New Mexico		Page 13 of 133	
Form C-141		Incident ID		
Page 4	Oil Conservation Division	District RP		
		Facility ID		
		Application ID		
regulations all oper public health or the failed to adequately addition, OCD acc and/or regulations. Printed Name: Signature:	Natalie Gladden Title:Environmental ar	nd perform corrective actions for releases wh not relieve the operator of liability should the ndwater, surface water, human health or the en lity for compliance with any other federal, sta	ich may endanger ir operations have nvironment. In	
OCD Only Received by: <u>R</u>	Robert Hamlet	Date: 4/26/2019		

Page 5

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

Oil Conservation Division

Page	<i>14</i>	of	133

Incident ID	
District RP	
Facility ID	
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: Date: Z/J/19 email: _natalie.gladden@whitebuffalo.com Telephone:575-390-6397			
<u>OCD Only</u>			
Received by: <u>Robert Hamlet</u> Date: <u>4/26/2019</u>			
X Approved Approved with Attached Conditions of Approval Denied Deferral Approved			
<u>Signature: 4/26/2019</u>			

Hamlet, Robert, EMNRD

From:	Hamlet, Robert, EMNRD	
Sent:	Friday, April 26, 2019 9:51 AM	
То:	'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.</u>

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.

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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

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New Mexico Office of the State Engineer Wells with Well Log Information

		No wells found.
UTMNAD83 Radius Search (in meters)	<u>:</u>	
Easting (X): 576609	Northing (Y): 3613757.47	Radius: 1000
The data is furnished by the NMOSE/ISC and is ac	cepted by the recipient with the expressed understa	anding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for

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

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New Mexico Office of the State Engineer Wells with Well Log Information

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a	(R=POI been rep O=orph C=the f	placed, aned,	(quar	ters are 1=1	NW 2=NE 3=	-SW 4=SE)								
water right	closed)			(quarters	are smallest t	o largest)	(NAD8	3 UTM in meters))			(in fe	eet)	
POD Number	Code	POD Subbasin	County	Source	qqq 64164 Sec	Tws Rng	х	Y	Distance Start Date	Finish Date	Log File Date	Depth Well	Depth Water Driller	License Number
<u>CP 00361 POD1</u>		СР	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>		СР	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>		СР	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 Rad	ius Sear	<u>ch (in meter</u>	<u>:s):</u>											
Easting (X):	76609			Northing	(Y): 3613	3757.47		Radius: 500	00					
*UTM location was deriv	ed from	PLSS - see H	lelp											

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

New Mexico Office of the State Engineer Point of Diversion Summary

			(quart	ers are 1:	=NW 2=	=NE 3=	=SW 4=SE)		
			(qua	rters are s	malles	t to lar	gest)	(NAD83 l	JTM in mete	ers)
Well Tag	PO	D Number	Q64	Q16 Q4	Sec	Tws	Rng	Х		Y
	CP	00361 POD1	3	1 3	09	19S	28E	576094	361524	6* 🌍
Driller Licen	se:		Driller Co	ompany	/:					
Driller Name) :	LOWE DRILLING	G CO.							
Drill Start Da	ate:	04/19/1971	Drill Fini	sh Date	:	05/	13/1966	Plu	g Date:	
Log File Dat	e:	05/25/1971	PCW Rcv	v Date:				Soι	irce:	Shallow
Pump Type:			Pipe Dise	charge	Size:			Est	imated Y	ield:
Casing Size	:	8.63	Depth W	ell:		365	feet	Dep	oth Water	: 265 feet
v	Nater	Bearing Stratifi	ications:	Тор	Bott	om	Descrip	tion		
				265		365	Sandsto	ne/Grave	el/Conglor	merate
		Casing Perf	orations:	Тор	Bott	om				
				288		348				

*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, usability, or suitability for any particular purpose of the data.

New Mexico Office of the State Engineer **Point of Diversion Summary**

		(quarters a (quarters)				=SW 4=SE) (NAD83 UTM	in motors)	
Well Tag	POD Number	Q64 Q1				• /	X	Y	
Ū	CP 00478 POD1	1 1	4			28E	575300 30	617036*	9
Driller Licens	se: 406	Driller Com	bany	': TIC	DWE	LL, CLYI	DE J.		
Driller Name	CLYDE TIDWE	LL							
Drill Start Da	te: 12/12/1969	Drill Finish	Date	:	12/2	23/1969	Plug D	ate:	
Log File Date	e: 01/02/1970	PCW Rcv Da	ate:		11/	01/1971	Source	:	Shallow
Pump Type:	SUBMER	Pipe Discha	rge	Size:			Estima	ted Yield	I: 7 GPM
Casing Size:	7.00	Depth Well:			312	2 feet	Depth	Water:	145 feet
N	ater Bearing Stratif	ications:	Гор	Bott	om	Descrip	tion		
			150	1	60	Sandsto	ne/Gravel/Co	onglomer	ate
			200	2	262	Sandsto	ne/Gravel/Co	onglomer	ate
	Casing Per	forations:	Гор	Botte	om				
			140	2	262				

*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, usability, or suitability for any particular purpose of the data.

New Mexico Office of the State Engineer Point of Diversion Summary

			``				=SW 4=SE	,				
			(quar	rters are s	malles	to lar	gest)	(NAD8	33 U	TM in meter	rs)	
Well Tag	PO	D Number	Q64	Q16 Q4	Sec	Tws	Rng		Х		Y	
	СР	00502		1 1	18	19S	28E	5730	001	3614478	8* 🌍	
Driller Licen	se:	30	Driller Co	ompany	: ВА	RRC	N, EMM	/IETT				
Driller Name	:	BARRON, EMN	1ETT									
Drill Start Da	ate:	03/23/1972	Drill Finis	sh Date	:	03/2	25/1972	F	Plug	Date:		
Log File Date	e:	04/05/1972	PCW Rcv	/ Date:				S	Soui	rce:	Sha	allow
Pump Type:			Pipe Disc	charge	Size:			E	Stir	nated Yi	eld:	
Casing Size:	:	5.25	Depth We	ell:		100) feet	C)ept	th Water:	91	feet
v	Vater	Bearing Strati	fications:	Тор	Bott	om	Descrip	otion				
				95		100	Sandsto	one/Gra	avel	/Conglon	nerate	

*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, usability, or suitability for any particular purpose of the data.

Received by OCD: 6/17/2020 2:47:07 PM GRIZZLY ENERGY

MILLMAN SB STATE #2 GROUND WATER MAP

CP 00478 POD 1 - 3530' FROM SITE - 145'DGW 57

CP 00361 POD1 - 1575' FROM SITE - 265'DGW

CP 00502 - 3679' FROM SITE - 91'DGW

Google Earth

@ 2020 Google



Received by OCD: 6/17/2020 2:47:07 PM GRIZZLY ENERGY

MILLMAN SB STATE #2 KARST MAP: LOW KARST

MILLMAN STATE SB #2

Google Earth

Page 24 of 133

Legend

- 🥖 High
- O Low
- 🥖 Medium
- MILLMAN STATE SB #2



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VANGUARD - MILLMAN SB STATE #2

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			48	<0.300	<10	<10	<10	<10	CAL	
SP11	SUR	<30										
	2'	<30			32	<0.300	<10	11.4	<10	11.4	CAL	
SP12	SUR	<30										
	2'	<30			48	<0.300	<10	<10	<10	<10	CAL	
SP13	SUR	<30										
	2'	<30			32	<0.300	<10	<10	<10	<10	CAL	
SP14	SUR	<30										
	2'	<30			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	

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VANGUARD - MILLMAN SB STATE #2

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										
	2'	<30	42		64	<0.300	<10	<10	<10	<10	CAL	
SP30	SUR	<30										
	2'	<30	58		32	<0.300	<10	<10	<10	<10	CAL	
SP31	SUR	<30										
	2'	<30	64		32	<0.300	<10	<10	<10	<10	CAL	
SP32	SUR	<30										
	2'	<30	62		32	<0.300	<10	<10	<10	<10	CAL	

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VANGUARD - MILLMAN SB STATE #2

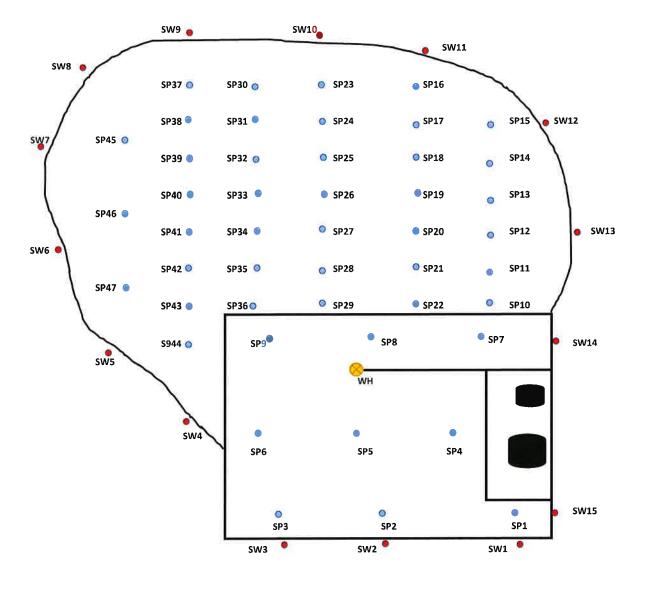
Sample ID	Ft	Field Chl	Titration	PID	Lab-Chl	Lab-BTEX	Lab-GRO	Lab-DRO	Lab-MRO	TPH	Soil	Notes
SP33	SUR	<30										
	2'	<30	58		16	<0.300	<10	<10	<10	<10	CAL	
SP34	SUR	<30										
	2'	<30	56		32	<0.300	<10	<10	<10	<10	CAL	
SP35	SUR	<30										
	2'	<30	44		<16	<0.300	<10	<10	<10	<10	CAL	
SP36	SUR	<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	

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VANGUARD - MILLMAN SB STATE #2

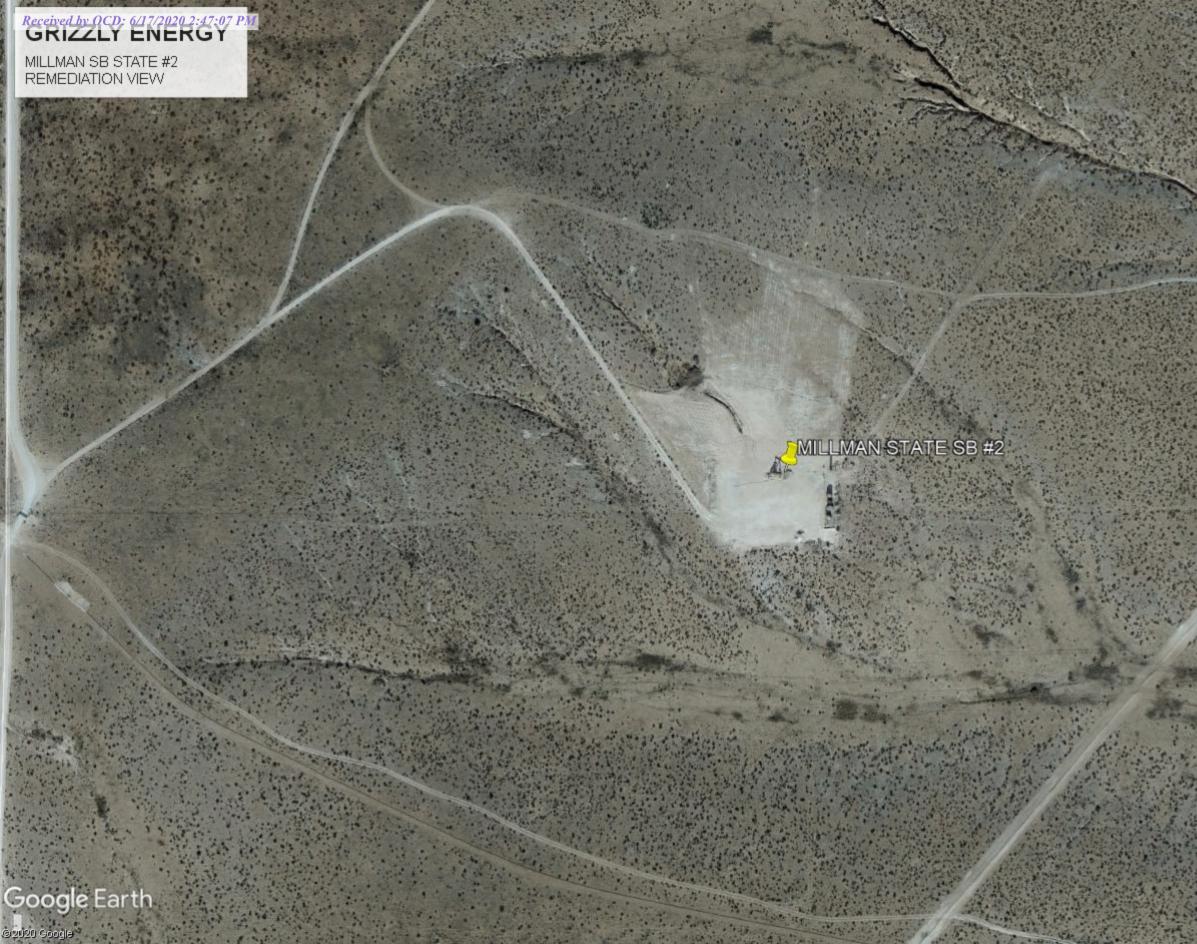
Sample ID	Ft	Field Chl	Titration	PID	Lab-Chl	Lab-BTEX	Lab-GRO	Lab-DRO	Lab-MRO	TPH	Soil	Notes
SW2	SUR	<30										
	2'	<30	54		48	<0.300	<10	288	138	426	CAL	
SW3	SUR	<30										
	2'	<30	54		32	<0.300	<10	<10	<10	<10	CAL	
SW4	SUR	<30										
	2'	<30	48		32	<0.300	<10	<10	<10	<10	CAL	
SW5	SUR	<30										
	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			16	<0.300	<10	<10	<10	<10	CAL	
SW2	3'	<30			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/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. 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	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

- - - . -

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	11/09/2018	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% 69.8-142

Chloride, SM4500CI-B	mg,	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 41-142							
Surrogate: 1-Chlorooctadecane	81.4	% 37.6-14	7						

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Celen There

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	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN NOT GIVEN	Sample Received By:	Tamara Oldaker

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

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	11/09/2018	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% 69.8-142

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 41-142							
Surrogate: 1-Chlorooctadecane	86.6	% 37.6-142	7						

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Celeg Di 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	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	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	83.1	% 41-142							
Surrogate: 1-Chlorooctadecane	86.0	37.6-14	7						

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Celeg Ditrena

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	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN NOT GIVEN	Sample Received By:	Tamara Oldaker

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 % 69.8-142

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	85,6	% 41-142							
Surrogate: 1-Chlorooctadecane	85.9	% 37.6-147	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	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	11/09/2018	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 % 69.8-142

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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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Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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 (PIL 93.7 % 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	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	91.1 9	% 41-142							
Surrogate: 1-Chlorooctadecane	92.0 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: Reported: Project Name: Project Number:	11/06/2018 11/12/2018 MILLMAN SB ST #2 NONE GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/01/2018 Soil Cool & Intact Tamara Oldaker
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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 (PIE 93.4 % 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	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							
Surrogate: 1-Chlorooctadecane	90.8	% 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	Sampling Date:	11/01/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	NÐ	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 % 69.8-142

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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					
Surrogate: 1-Chlorooctane	91.0	% 41-142							
Surrogate: 1-Chlorooctadecane	91,1	% 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	Sampling Date:	11/01/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldake
Project Location:	NOT GIVEN		

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

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	11/09/2018	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 95.5 % 69.8-142

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	⊤rue 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	93.1	% 41-142							
Surrogate: 1-Chlorooctadecane	92.1	% 37.6-14	7						

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Colory D. 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	Sampling Date:	11/01/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	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 % 69.8-142

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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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Celey D. Keene, Lab Director/Quality Manager

Page 11 of 53



Analytical Results For:

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

Received:	11/06/2018	Sampling Date:	11/01/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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 (PIL 96.3 % 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	
DR0 >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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Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/06/2018	Sampling Date:	11/01/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN NOT GIVEN	Sample Received By:	Tamara Oldaker

Sample ID: SP 12 - 2' (H803191-12) BTEV 9021B

BTEX 8021B	mg,	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 95.9 % 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	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	95.4	% 41-142							
Surrogate: 1-Chlorooctadecane	97.2	% 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: Reported:	11/06/2018 11/12/2018	Sampling Date: Sampling Type:	11/01/2018 Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	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 95.5 % 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	91.9	% 41-142							
Surrogate: 1-Chlorooctadecane	90.0	% 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	Sampling Date:	11/01/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Number: Project Location:	NONE GIVEN NOT GIVEN	Sample Received By:	Tamara Oldaker

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

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BTEX 8021B	mg.	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 94.4 % 69.8-142

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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	
DR0 >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							
Surrogate: 1-Chlorooctadecane	94.6	% 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	Sampling Date:	11/01/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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 94.6 % 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	94.4	% 41-142							
Surrogate: 1-Chlorooctadecane	94.8	% 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	Sampling Date:	11/01/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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 95.6 % 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	<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	2						
Surrogate: 1-Chlorooctadecane	95.9	% 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	Sampling Date:	11/01/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

BTEX 8021B mg/kg		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/	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	89.6 %	% 41-142							
Surrogate: 1-Chlorooctadecane	89.0 %	37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



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

Received: Reported: Project Name: Project Number: Project Location;	11/06/2018 11/12/2018 MILLMAN SB ST #2 NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/01/2018 Soil Cool & Intact Tamara Oldaker
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Sample ID: SP 18 - 2' (H803191-18)

BIEX 8021B	mg,	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 (PID 96.7 % 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	93.2	% 41-142							
Surrogate: 1-Chlorooctadecane	93.1	% 37.6-147							

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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	Sampling Date:	11/01/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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 93.2 % 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	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_1	% 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	Sampling Date:	11/01/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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 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	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					
Surrogate: 1-Chlorooctane	89.3	% 41-142							
Surrogate: 1-Chlorooctadecane	86.8	% 37.6-142	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	Sampling Date:	11/01/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN NOT GIVEN	Sample Received By:	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	⊤rue 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 % 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	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	% 37.6-147	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	Sampling Date:	11/02/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	⊤rue 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 105 % 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
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.I	% 41-142							
Surrogate: 1-Chlorooctadecane	85.8	% 37.6-147	7						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/06/2018	Sampling Date:	11/02/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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 % 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	99,3	% 41-142							
Surrogate: 1-Chlorooctadecane	85.2	% 37.6-147	,						

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

Received:	11/06/2018	Sampling Date:	11/02/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN NOT GIVEN	Sample Received By:	Tamara Oldaker

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

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% 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, 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	90.6	% 41-142							
Surrogate: 1-Chlorooctadecane	76.8	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/06/2018	Sampling Date:	11/02/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN NOT GIVEN	Sample Received By:	Tamara Oldaker

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

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	it.
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 102 % 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	107	% 41-142							
Surrogate: 1-Chlorooctadecane	92.1	% 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	Sampling Date:	11/02/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 69.8-142

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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	104 9	% 41-142							
Surrogate: 1-Chlorooctadecane	93.8	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/06/2018	Sampling Date:	11/02/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Name: Project Number: Project Location:	MILLIMAN SB ST #2 NONE GIVEN NOT GIVEN	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	
Total BTEX	<0.300	0.300	11/09/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE 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	NÐ	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	106	% 41-142							
Surrogate: 1-Chlorooctadecane	95.0	% 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	Sampling Date:	11/02/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project 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 (PIL 102 % 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	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	% 37.6-147	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	Sampling Date:	11/02/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN NOT GIVEN	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					

101 % 69.8-142 Surrogate: 4-Bromofluorobenzene (PIL

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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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	Sampling Date:	11/02/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name: Project Number: Project Location:	MILLMAN SB ST #2 NONE GIVEN NOT GIVEN	Sampling Condition: Sample Received By:	Cool & Intact Tamara Oldaker

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

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 (PIE 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	103	% 41-142							
Surrogate: 1-Chlorooctadecane	93.4	% 37.6-147	7						

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Celeg T. Keine



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

Received:	11/06/2018	Sampling Date:	11/02/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN NOT GIVEN	Sample Received By:	Tamara Oldaker

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

BTEX 8021B	mg,	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 (PIL 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 9	% 41-142							
Surrogate: 1-Chlorooctadecane	93.9	% 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	Sampling Date:	11/02/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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 (PIL 102 % 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	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					12	

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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	Sampling Date:	11/05/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

BTEX 8021B	mg,	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					

103 % 69.8-142 Surrogate: 4-Bromofluorobenzene (PIL

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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Analytical Results For:

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

Received:	11/06/2018	Sampling Date:	11/05/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

BTEX 8021B	mg,	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 (PIL 102 % 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	11/08/2018	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	% 41-142							
Surrogate: 1-Chlorooctadecane	91.8	% 37.6-147	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 35 of 53



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

Received:	11/06/2018	Sampling Date:	11/05/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN NOT GIVEN	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 (PIL 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	<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	% 41-142							
Surrogate: 1-Chlorooctadecane	90.6	% 37.6-147	7						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:11/06/2018Reported:11/12/2018Project Name:MILLMAN SB ST #2Project Number:NONE GIVENProject Location:NOT GIVEN

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Sampling Date: Sampling Type: Sampling Condition: Sample Received By: 11/05/2018 Soil Cool & Intact Tamara Oldaker

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

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BIEX 8021B	mg/	кg	Analyzed	ву: мэ					
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					

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Surrogate: 4-Bromofluorobenzene (PIL 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 9	% 41-142							
Surrogate: 1-Chlorooctadecane	91,1	% 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		Sampling Date:	11/05/2018
Reported:	11/12/2018		Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Tamara Oldaker

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

Project Location:

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 103 % 69.8-142

NOT GIVEN

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							
Surrogate: 1-Chlorooctadecane	86.6	% 37.6-14	7						

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Analytical Results For:

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

Reported: 11/12/2018 Project Name: MILLMAN SB ST #2	Sampling Type:	Soil Cool & Intact
Project Name: MILLMAN SB ST #2 Project Number: NONE GIVEN Project Location: NOT GIVEN	Sampling Condition: Sample Received By:	Tamara Oldaker

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

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					

69.8-142 Surrogate: 4-Bromofluorobenzene (PIL 103 %

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	85.8	% 41-142							
Surrogate: 1-Chlorooctadecane	82,5	% 37.6-14	7						

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

Received:	11/06/2018	Sampling Date:	11/05/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN NOT GIVEN	Sample Received By:	Tamara Oldaker

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

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 % 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	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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Celeg Z. Keine-



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

Received:	11/06/2018	Sampling Date:	11/05/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN NOT GIVEN	Sample Received By:	Tamara Oldaker

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

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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/	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	89.1 %	6 41-142							
Surrogate: 1-Chlorooctadecane	85.2 %	6 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 41 of 53



Analytical Results For:

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

Received:	11/06/2018	Sampling Date:	11/05/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition;	Cool & Intact
Project Number: Project Location:	NONE GIVEN NOT GIVEN	Sample Received By:	Tamara Oldaker

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

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 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	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 9	% 41-142							
Surrogate: 1-Chlorooctadecane	78.7 9	37.6-14	7						

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Celez 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	Sampling Date:	11/05/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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 % 69.8-142

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	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	% 41-142							
Surrogate: 1-Chlorooctadecane	82,1	% 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: Reported: Project Name: Project Number: Project Location:	11/06/2018 11/12/2018 MILLMAN SB ST #2 NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/05/2018 Soil Cool & Intact Tamara Oldaker
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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	NÐ					

Surrogate: 4-Bromofluorobenzene (PIE 96.3 % 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	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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Analytical Results For:

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

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker Project Location: NOT GIVEN	5		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/05/2018 Soil Cool & Intact Tamara Oldaker
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Sample ID: SP 45 - 2' (H803191-44)

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 % 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	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



Analytical Results For:

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

Received:	11/06/2018	Sampling Date:	11/05/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN	Sample Received by.	

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

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-Bromofluoroben=ene (PIL 102 % 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	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	84.8 9	% 41-142							
Surrogate: 1-Chlorooctadecane	82,4 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:	11/06/2018	Sampling Date:	11/05/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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 (PID 102 % 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	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	% 37.6-147	7						

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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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		Relinquished By:	SA I	50	service. In no event shall Cardinal be fable for incidential or consequential damages, including without finitation, business induringbons, loss or use, or loss or provide invariance or service and the service of the service state reasons or other services and the service state reasons or other services and the service state of or related to the performance of services hereunder by Cardinal, repartiess of whether such cleim is based upon any of the above stated reasons or other services and the service state of the performance of services hereunder by Cardinal, repartiess of whether such cleim is based upon any of the above stated reasons or other services hereunder by Cardinal, repartiess of whether such cleim is based upon any of the above stated reasons or other services hereunder by Cardinal repartiess of whether such cleim is based upon any of the above stated reasons or other services hereunder by Cardinal repartiess of whether such cleim is based upon any of the above stated reasons or other services hereunder by Cardinal repartiess of whether such cleim is based upon any of the above stated reasons or other services hereunder by Cardinal repartiess of whether such cleim is based upon any of the above stated reasons or other services hereunder by Cardinal repartiess of whether such cleim is based upon any of the above stated reasons or other services hereunder by Cardinal reparties of the services hereunder by the services hereunder by Cardinal reparties of the services hereunder by the services hereunder by Cardinal reparties of the services hereunder by the services hereunder by the services hereunder by Cardinal reparties of the services hereunder by the services hereun	PLEASE NOTE: Liability and Chanages. Current's habitity and client's exclusive remedy for any claim arising whether based in contract or tort, shall be inned to the arround pod by the client for the gradees. All claims including those for negligence and any other cause wholeover shall be deemed waived unless made in withing and received by Candinal within 30 days site completion applicable gradees. All claims including those for negligence and any other cause wholeover shall be deemed waived unless made in withing and received by Candinal within 30 days site completion applicable gradees. All claims including those for negligence and any other cause wholeover shall be deemed waived unless made in withing and received by Candinal within 30 days site completion applicable gradees. All claims including those for negligence and any other cause wholeover shall be deemed waived unless made in withing and received by Candinal within 30 days site completion applicable gradees. All claims including those for negligence and any other cause wholeover shall be deemed waived unless made in withing and received by Candinal within 30 days site completion applicable gradees. All claims including these for negligence and any other cause wholeover shall be deemed waived unless made in withing and received by Candinal within 30 days site completions and any other cause whole and any other cause wholeover shall be deemed waived unless made in withing and received by Candinal within 30 days site completions and any other cause whole and any other cause whole any other and any other cause whole any other and any other cause whole any other cause whole any other cause whole any other and any other cause whole any other and any other	10 5010-01		8 SP8-2	er + d>	D APIE-D	ĭ	- 1		E-695 2	1 SP1-2	191503191	Lab I.D. Sample I.D.		Sampler Name: LowDuce (Project Location:	Project Name: MILLINAN SB		e #		Address:	Project Manager:	Company Name: 1/ANGWARD	(575) 393-2326 FAX (575) 393-2476
Sample Condition Cool Intact	Time:	Receiv	Time: 25 Jamara	Date: 6-18 Received By:	ental dumages, including without Emitation, business interrupt sarvices hereunder by Cantinal, regardless of whether such o	ges. Carcina's tability and client's exclusive remedy for any claim arising whether based in contract or bot, shall be limbed to the amount pool by the deant to the tor negligence and any other cause whotsoerer shall be deemed waived unless made in writing and received by Cantral within 30 days in the deam of the share on the deam of the share	2		6 1	5	5	6	2	6	8 1	6 1	# CON GROU WAST SOIL OIL	IB OR (C)ON NTAINERS JNDWATER FEWATER		me 12			Project Owner:	Fax #:	State: Zip:				75) 393-2476
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101 East Marland, Hobbs, NM 88240

Sampler - UPS - Bus - Other: _ 1.7 2 #9;	Delivered By: (Circle One)	Time:	Relinquished By: date:	Time-125	Relinquisher By: 1 470-6-18	affiliates or successors arising out of or related to the performance of services hereunder by C	analyses. All claims including those for negliguence and any other causes whatsoerver shall be deemed waiwed unless made in writing and iscensed of Learone wattern us over- service. In no event shall Cautional be lable for incidenced or consequential damages, including without findation, business interruptions, loss of uses, or bass of profits incurred by client, its substations, service. In no event shall Cautional be lable for incidenced or consequential damages, including without findation, business interruptions, loss of use, or bass of profits incurred by client, its substations, service.	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's erch.sive remedy for a	50	ž	6-8102 8			505-	CA	5013-	12 ~ 212-21	II SpII-2	1915/08/1	Lab I.D. Sample I.D.			Sampler Name: Wow David Curto	УЛ:	Project Name: NDUMAN SB ST. 2	Project #: Project Owner:	Phone #: Fax #:	State:	Address:	Project Manager:	Company Name: VANGUARD
	~ (0		Received By:	Jamara Ladarda Re	Keceived by:	Cardinal, repardless of whether such claim is based upon any of the adove statud reasons or opreviews	eened waived unless made in writing and iscawed by Caroma wuuri vu verys aure verie without limitation, business interruptions, bos of use, or boss of profits incumed by client, it	Cardna's lithiny and client's enclasive renedy for any claim analog whether based in contract or bot, shall be limited to the amount paid by the client for the Cardna's lithiny and client's enclasive renedy for any claim analog whether based in contract or bot, shall be limited to the amount paid by the client of the second s	V V V Wishs		1 1 Ni.112	S/1/1 / 1/1/18	v v mile		2 1 1 1 1 1 1 1 1 T	1 J 14/18		G V IIIII V	# CON GROL WAST SOIL OIL SLUD OTHE ACID ICE / OTHE	ER : /BASE: COOL	RS	MATRIX PRESERV. SAMPLING	Fax #:	Phone #: 918-660-04	state: OK Zip: 74/3	city: Julla-	Address: 8908 yale A	zip: Attn: Steve TMP For	company: White Buy	P.O. #:	B)11 FO
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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/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celeg D. 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:	11/08/2018	Sampling Date:	11/06/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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 (PID 101 % 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	11/14/2018	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						

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Celeg T. Frence





Analytical Results For:

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

Received:	11/08/2018	Sampling Date:	11/06/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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 % 69.8-142

Chloride, SM4500Cl-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	
DR0 >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: I-Chlorooctadecane	<i>99</i> 5	% 37.6-14	7						

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Celeg Ditreene

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	Sampling Date:	11/06/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN NOT GIVEN	Sample Received By:	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 % 69.8-142

Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: AC				S	
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	% 41-142							
Surrogate: 1-Chlorooctadecane	91.4	% 37.6-14	7						

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Celeg Litrene

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	Sampling Date:	11/06/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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 (PIE 99.8 % 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	11/14/2018	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	% 37.6-147	7						

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Analytical Results For:

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

Received:	11/08/2018	Sampling Date:	11/06/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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

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	11/13/2018	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 % 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	11/14/2018	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	96.3	% 41-142	2						
Surrogate: 1-Chlorooctadecane	89.3	% 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:	11/08/2018	Sampling Date:	11/06/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN NOT GIVEN	Sample Received By:	Jodi Henson

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

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	11/13/2018	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 % 69.8-142

Chloride, SM4500Cl-B	mg/kg		Analyze	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	% 41-142							
Surrogate: 1-Chlorooctadecane	95.2	% 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: Reported: Project Name: Project Number: Project Location:	11/08/2018 11/14/2018 MILLMAN SB ST #2 NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/06/2018 Soil Cool & Intact Jodi Henson
---	---	--	--

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

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	11/13/2018	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 102 % 69.8-142

Chloride, SM4500Cl-B	mg/kg		Analyze	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



Analytical Results For:

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

Received:	11/08/2018	Sampling Date:	11/06/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN NOT GIVEN	Sample Received By:	Jodi Henson

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

BTEX 8021B	mg/	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	11/13/2018	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 % 69.8-142

Chloride, SM4500Cl-B	mg/kg		Analyze	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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Analytical Results For:

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

Received: Reported: Project Name: Project Number: Project Location:	11/08/2018 11/14/2018 MILLMAN SB ST #2 NONE GIVEN NOT GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/06/2018 Soil Cool & Intact Jodi Henson
---	---	--	--

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

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	11/13/2018	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 99.8 % 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	11/14/2018	ND	432	108	400	3.64	
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	11/10/2018	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 9	% 41-142							
Surrogate: 1-Chlorooctadecane	97.6	% 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: Reported: Project Name:	11/08/2018 11/14/2018 MILLMAN SB ST #2	Sampling Date: Sampling Type: Sampling Condition:	11/07/2018 Soil Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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

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	11/13/2018	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					

99.2 % 69.8-142 Surrogate: 4-Bromofluorobenzene (PID

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		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	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	% 41-142	,						
Surrogate: 1-Chlorooctadecane	95.9	% 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:	11/08/2018	Sampling Date:	11/07/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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

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	11/13/2018	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 % 69.8-142

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	11/14/2018	ND	432	108	400	3.64	
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	11/10/2018	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					
Sturrogate: 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

Page 12 of 20



Analytical Results For:

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

Received:	11/08/2018	Sampling Date:	11/07/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN NOT GIVEN	Sample Received By:	Jodi Henson

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

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	11/13/2018	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 101 % 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	11/14/2018	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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Analytical Results For:

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

Received:	11/08/2018	Sampling Date:	11/07/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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

BTEX 8021B mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier 2.00 1.94 Benzene* < 0.050 0.050 11/14/2018 ND 2,48 124 0.050 11/14/2018 ND 2.41 120 2.00 1.28 Toluene* < 0.050 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 (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	<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	% 41-142	•						
Surrogate: 1-Chlorooctadecane	83,2	% 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:	11/08/2018	Sampling Date:	11/07/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN NOT GIVEN	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 (PIL 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	11/14/2018	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





Analytical Results For:

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

Received:	11/08/2018	Sampling Date:	11/07/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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

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 (PIE 105 % 69.8-142

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	⊤rue 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	% 37.6-14	7						

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

Celez Theme



Analytical Results For:

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

Received:	11/08/2018	Sampling Date:	11/07/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	MILLMAN SB ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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 % 69.8-142

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	11/14/2018	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	% 41-142							
Surrogate: 1-Chlorooctadecane	84_2	% 37.6-14	7						

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Celeg Z. Keene -



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.
i.	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Laboratories

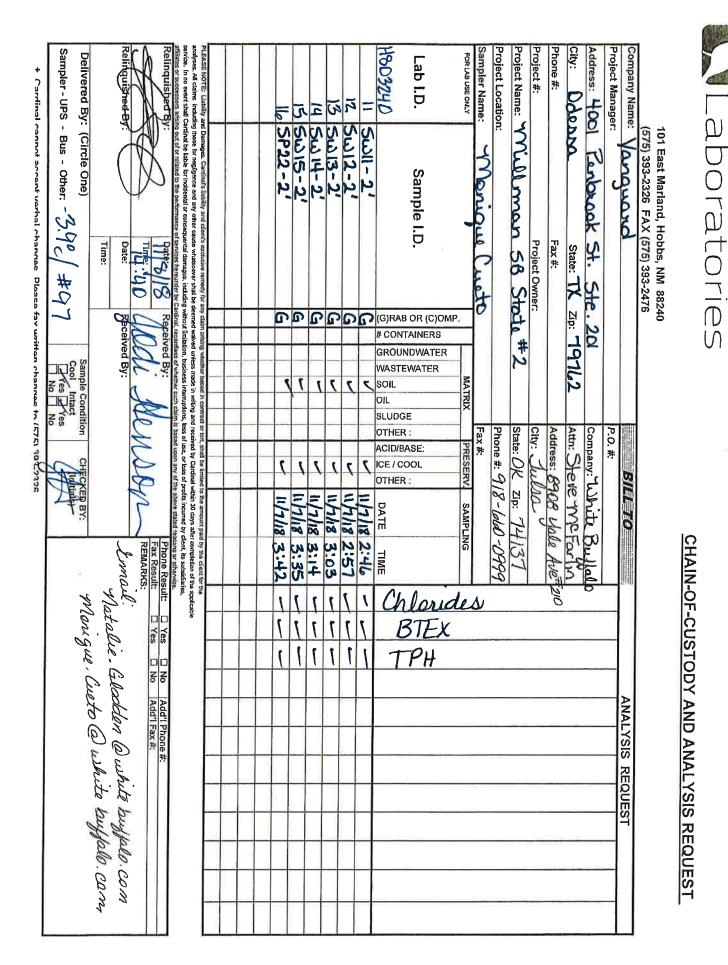
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Vanguard		BILLTO		ANALYSIS REQUEST
9		P.O. #	2	
Address: 4001 Kentscook St.	Sta. 201	company: White Bus	Jalo	
deppa s	Zip: 79762	Attn: Steve TMP For	-lin	
Phone #: Fax #:		Address: BAOR Wale Avet	A.10#210	
Project #: Project Owner:		city: Julso		
Project Name: Willmon SB S	State #2	State: OK Zip: 7413	37	
Project Location:		Phone #: 918-660-0999	1999	
Sampler Name: Monique Custo		Fax #:	لم	
	MATRIX	PRESERV SAMPLING	de	
Lab I.D. Sample I.D.	3 or (C)omp Tainers Ndwater Ewater Be	ASE: OOL	rlorie	PH
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5 Sw3-2	0 \	- U-L-18 10: 24	1.24 1.1	(
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Project Manager:				P.O. 共								_
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FOR LAB USE ONLY		4	MATRIX	ESERV.	SAMPLING	N						
Lab I.D.	Sample I.D.	GRAB OR (C)OMP.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :	DATE TIME	CHLOPI	TPH					
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Lab I.D.	Sample I.D.	Ō	(G)RAB OR # CONTAIN	GROUNDW	WASTEWA' SOIL	OIL	SLUDGE OTHER :	ACID/BASE	ICE / COOL	OTHER :	DATE	TIME	1H	BT	TPI													
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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

Walter Hinking

Date: 6/12/20

Report Reviewed By:

Walter Hinchman, Laboratory Director



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Grizzly Energy	Project Name:	Millman Sb State #2	
4001 Penbrook Suite 201	Project Number:	19054-0003	Reported:
Odessa TX, 79762	Project Manager:	Eddie Gaytan	06/12/20 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.

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Page 105 of 133

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Grizzly Energy	Project	Name:	Milln	nan Sb State	#2				
4001 Penbrook Suite 201	Project	Number:	19054	4-0003				Reported:	
Odessa TX, 79762	Project	Manager:	Eddie	e Gaytan				06/12/20 15:	20
		Ş	Sw2 3'						
			36-01 (So	olid)					
		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		103 %	50-	-150	2024013	06/11/20	06/11/20	EPA 8021B	
Nonhalogenated Organics by EPA 80151) - 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 80151	D - 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	

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Received by OCD: 6/17/2020 2:47:07 PM



Grizzly Energy	Project	Project Name:		nan Sb State					
4001 Penbrook Suite 201	Project Number: Project Manager:		19054	4-0003	Reported: 06/12/20 15:20				
Odessa TX, 79762			Eddie	e Gaytan					
Sw2 4'									
		P0060	36-02 (So	lid)					
		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 %	50-150		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		88.1 %	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		93.8 %	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	

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Grizzly Energy	Project Name:	Millman Sb State #2	
4001 Penbrook Suite 201	Project Number:	19054-0003	Reported:
Odessa TX, 79762	Project Manager:	Eddie Gaytan	06/12/20 15:20

Volatile Organics by EPA 8021B - Quality Control

Envirotech Analytical Laboratory

			·		·					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2024013 - Purge and Trap EPA 5030A										
		Prepared & Analyzed: 06/11/20 0								
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: 06/11/20 0 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)	Sou	Source: P006026-01			Prepared: 06/11/20 0 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)	Source: P006026-01			Prepared: 06/11/20 0 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	102	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	101	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	3.89	200	
· · ·		0.0230	"		1112			5.00	200	
Surrogate: 4-Bromochlorobenzene-PID	8.46		"	8.00		106	50-150			

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Grizzly Energy	Project Name:	Millman Sb State #2	
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 - DRO/ORO - Quality Control

			Envirotech Analytical Laboratory											
Pecult	Reporting Limit	Unite	Spike	Source	%PEC	%REC	RDD	RPD Limit	Notes					
Result	Liint	Units	Lever	Result	70KEC	Linits	KI D	Linit	Notes					
Prepared & Analyzed: 06/11/20 0														
ND	25.0	mg/kg												
ND	50.0	"												
43.8		"	50.0		87.6	50-200								
			Prepared: 0	6/11/20 0 A	nalyzed: 00	6/11/20 1								
431	25.0	mg/kg	500		86.2	38-132								
46.6		"	50.0		93.1	50-200								
Sou	rce: P006026-	01	Prepared: 0	6/11/20 0 A	nalyzed: 00	6/11/20 1								
3660	125	mg/kg	500	3740	NR	38-132			M4					
56.6		"	50.0		113	50-200								
Source: P006026-01 Prepared: 06/11/20 0 Analyzed: 06/11/20 1														
4300	125	mg/kg	500	3740	111	38-132	16.0	20	M4					
56.9		"	50.0		114	50-200								
	ND 43.8 431 46.6 Sour 3660 56.6 Sour 4300	Result Limit ND 25.0 ND 50.0 43.8 431 431 25.0 46.6 Source: P006026- 3660 125 56.6 Source: P006026- 4300 125	Result Limit Units ND 25.0 mg/kg ND 50.0 " 43.8 " " 431 25.0 mg/kg 46.6 " " 3660 125 mg/kg 56.6 " " Source: P006026-01 " " 4300 125 mg/kg	Result Limit Units Level ND 25.0 mg/kg Prepared & ND 50.0 " 9000000000000000000000000000000000000	Result Limit Units Level Result ND 25.0 mg/kg Prepared & Analyzed: ND 50.0 " 9000000000000000000000000000000000000	Result Limit Units Level Result %REC Prepared & Analyzed: 06/11/20 0 ND 25.0 mg/kg mg/kg	Result Limit Units Level Result %REC Limits Prepared & Analyzed: 06/11/20 0 ND 25.0 mg/kg <td>Result Limit Units Level Result %REC Limits RPD Prepared & Analyzed: 06/11/20 0 ND 25.0 mg/kg </td> <td>Result Limit Units Level Result %REC Limits RPD Limit Result Limit Units Level Result %REC Limits RPD Limit Prepared & Analyzed: 06/11/20 0 0</td>	Result Limit Units Level Result %REC Limits RPD Prepared & Analyzed: 06/11/20 0 ND 25.0 mg/kg	Result Limit Units Level Result %REC Limits RPD Limit Result Limit Units Level Result %REC Limits RPD Limit Prepared & Analyzed: 06/11/20 0 0					





Grizzly Energy	Project Name:	Millman Sb State #2	
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

Envirotech Analytical Laboratory Reporting Spike %REC RPD Source Analyte Result Limit Units Level Result %REC Limits RPD Limit Notes Batch 2024013 - Purge and Trap EPA 5030A 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 Prepared: 06/11/20 0 Analyzed: 06/11/20 1 LCS (2024013-BS2) Gasoline Range Organics (C6-C10) 47.7 20.0 50.0 95.4 70-130 mg/kg Surrogate: 1-Chloro-4-fluorobenzene-FID 7.37 92.1 8.00 50-150 Prepared: 06/11/20 0 Analyzed: 06/11/20 1 Matrix Spike (2024013-MS2) Source: P006026-01 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: 06/11/20 0 Analyzed: 06/11/20 1 Gasoline Range Organics (C6-C10) 49.5 20.0 50.0 ND 99.1 70-130 3.61 20 mg/kg 7.44 Surrogate: 1-Chloro-4-fluorobenzene-FID 8.00 93.0 50-150





Grizzly Energy	Project Name:	Millman Sb State #2	
4001 Penbrook Suite 201	Project Number:	19054-0003	Reported:
Odessa TX, 79762	Project Manager:	Eddie Gaytan	06/12/20 15:20

Anions by EPA 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Batch 2024016 - Anion Extraction EPA 300.0/9056A												
Blank (2024016-BLK1)					06/11/20 0 Analyzed: 06/11/20 1							
Chloride	ND	20.0	mg/kg									
LCS (2024016-BS1)				Prepared: 06/11/20 0 Analyzed: 06/11/20 1								
Chloride	251	20.0	mg/kg	250		100	90-110					
Matrix Spike (2024016-MS1)	Sour	ce: P006036-	01	Prepared: 06/11/20 0 Analyzed: 06/11/20 1								
Chloride	254	20.0	mg/kg	250	ND	102	80-120					
Matrix Spike Dup (2024016-MSD1)	Sour	ce: 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.





Grizzly Energy	Project Name:	Millman Sb State #2	
4001 Penbrook Suite 201	Project Number:	19054-0003	Reported:
Odessa TX, 79762	Project Manager:	Eddie Gaytan	06/12/20 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.
NID	An elite NOT DETECTED at an eliterative limit

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

Relative Percent Difference RPD

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

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



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Client: Grizzly Energy Report Attention			ntion	Lab Use Only TAT EPA Pro				ogran	n (
roject: Millman Sb State			Report due by: HUNGRY H	ORSE LLC	Lab	WO	#		Job N	umber		1D	3D	RCRA	CM	/A	SD\
roject Manager: Eddie G	Gaytan		Attention: EDDIE GAYTAN	162	Pr	5	02	yo	1900	H.a	xB	X					
ddress:			Address: 4024 PLAINS HW	Y					Analysi							Stat	
ty, State, Zip			City, State, Zip	11.	15	15									NM	CO	UT
none: (575) 441-0212			Phone: (575) 441-0212		v 80	y 80	-		0.0								
mail: EGAYTAN@HUNG	RY-HORSE.	COM	Email: EGAYTAN@HUNG	RY-HORSE.COM	Q þ	0 pi	802	8260	300	05	Σ	¥1			×		
Time Date Matrix	No Containers	Sample ID	1	Lab Numb	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005	BGDOC - NM	BGDOC - TX				Rema	irks
1:20 6/9/20 S	1	Sw2 3'		1							X						
1:27 1 1	1	Sw2 4'		2							x						
		lite"				+				_							
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	1		4. 														
dditional Instructions:		1	11	2. 0									¢		I		
field sampler), attest to the validity ar	d authenticity of	his sample. I am aware th	hat tampering with or intentionally mislabeling th	e sampe location, date or					Samples rec	uiring therr	nal prese	rvation m	ust be recei	ved on ice th	e day they	are samp	led or
ne of collection is considered fraud an			111	1						5				than 6 °C on	- 1970 - 1970 - 1970 - 1970 - 1970 - 1970 - 1970 - 1970 - 1970 - 1970 - 1970 - 1970 - 1970 - 1970 - 1970 - 1970		
elinguished by: (Signature)	Date	Time	Received by: (Signature)	Date 6.10).202	Time		0	Receiv	ad on	ico:	~	ab Use Y N	Only		5	
elinquished by: (Signature)	Date	Time	Received by: (Signature)-		bo	Time			<u>T1</u>			<u>T2</u>			<u>T3</u>		
A la			30 AUADIO	I NOW OF IT	au	1	- 1,		AVG T		_	<u> </u>				1. S.	
mple Matrix: S - Soil, Sd - Solid, Sg	The second se		ar arrangements are seed. Use-ad-	Contair													
			er arrangements are made. Hazardous sar lity of the laboratory is limited to the amou			r dispos	sed of a	at the c	lient expe	ense. The	report	for the	e analysis	of the abo	ove sam	oles is a	pplica
in to those sumples received by the	ic laboratory w	and this coc. The liable	inty of the laboratory is infinted to the diffor	and pard for on the repor										1 Hills Ver	-		
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			or by our indrivation, remaindion, MMI 6/401														

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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

Walter Hinkimm

Date: 6/12/20

Report Reviewed By:

Walter Hinchman, Laboratory Director



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Grizzly Energy	Project Name:	Millman Sb State #2	
4001 Penbrook Suite 201	Project Number:	19054-0003	Reported:
Odessa TX, 79762	Project Manager:	Eddie Gaytan	06/12/20 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.

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Page 115 of 133

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Grizzly Energy	Project	Name:	Milln	nan Sb State	#2					
4001 Penbrook Suite 201	Project	Number:	19054	4-0003				Reported:		
Odessa TX, 79762	Project	Manager:	Eddie	e Gaytan				06/12/20 15:20		
		1	Sw2 3'							
			36-01 (So	lid)						
		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		103 %	50-	150	2024013	06/11/20	06/11/20	EPA 8021B		
Nonhalogenated Organics by EPA 8015E	- 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 8015E	- 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		



Received by OCD: 6/17/2020 2:47:07 PM



Grizzly Energy	Project	Name:	Milln	nan Sb State	#2					
4001 Penbrook Suite 201	Project	Number:	19054	4-0003				Reported:		
Odessa TX, 79762	Project	Manager:	Eddie	e Gaytan				06/12/20 15:20		
		Ş	Sw2 4'							
			36-02 (So	olid)						
		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-	-150	2024013	06/11/20	06/11/20	EPA 8021B		
Nonhalogenated Organics by EPA 8015) - 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-	-200	2024014	06/11/20	06/11/20	EPA 8015D		
Nonhalogenated Organics by EPA 8015) - 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-	-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	Project Number:	19054-0003	Reported:
Odessa TX, 79762	Project Manager:	Eddie Gaytan	06/12/20 15:20

Volatile Organics by EPA 8021B - Quality Control

Envirotech Analytical Laboratory

			·		·					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2024013 - Purge and Trap EPA 5030A										
				Prepared &	k 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: (06/11/20 0 4	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)	Sou	ırce: P006026-	01	Prepared: (06/11/20 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)	Sou	ırce: 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	101	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	
•	8.46	0.0230	"	8.00	n.b	106	50-150	5.00	200	
Surrogate: 4-Bromochlorobenzene-PID	8.40			8.00		100	50-150			





Grizzly Energy	Project Name:	Millman Sb State #2	
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 - DRO/ORO - Quality Control

En	virotech A	Analyti	cal Labor	atory					
	Reporting		Spike	Source		%REC		RPD	
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
			Prepared &	Analyzed:	06/11/20 0				
ND	25.0	mg/kg							
ND	50.0	"							
43.8		"	50.0		87.6	50-200			
			Prepared: ()6/11/20 0 A	Analyzed: 0	6/11/20 1			
431	25.0	mg/kg	500		86.2	38-132			
46.6		"	50.0		93.1	50-200			
Sour	ce: P006026-	01	Prepared: ()6/11/20 0 A	6/11/20 1				
3660	125	mg/kg	500	3740	NR	38-132			M4
56.6		"	50.0		113	50-200			
Sour	rce: P006026-	01	Prepared: ()6/11/20 0 A	Analyzed: 0	6/11/20 1			
4300	125	mg/kg	500	3740	111	38-132	16.0	20	M4
56.9		"	50.0		114	50-200			
	Result ND ND 43.8 431 46.6 Sour 3660 56.6 Sour 4300	Result Reporting Result Limit ND 25.0 ND 50.0 43.8 431 431 25.0 46.6 Source: P006026- 3660 125 56.6 Source: P006026- 4300 125	Reporting Result Reporting Limit Units ND 25.0 mg/kg ND 50.0 " 43.8 " " 43.8 " " 43.8 " " 46.6 " " 50.0 125 mg/kg 56.6 " " 50.6.0 " " 4300 125 mg/kg	Reporting Result Spike Limit Spike Units ND 25.0 mg/kg ND Prepared & 43.8 " 50.0 " 43.8 " 50.0 Prepared & 431 25.0 mg/kg 500 46.6 " 50.0 Prepared (36600 125 mg/kg 500 56.6 " 50.0 90 56.6 " 50.0 90 4300 125 mg/kg 500	Result Limit Units Level Result Result Limit Units Level Result Prepared & Analyzed: Prepared & Analyzed: Prepared: 0 ND 50.0 " 9 43.8 " 50.0 9 431 25.0 mg/kg 500 46.6 " 50.0 9 50.0 Source: P006026-01 Prepared: 06/11/20 3660 125 mg/kg 500 3740 56.6 " 50.0 9 50.0 120 Source: P006026-01 Prepared: 06/11/20 0 4 4300 125 mg/kg 500 3740	Reporting Result Spike Limit Source Level Source Result %REC ND 25.0 mg/kg ND 90.0 " 97.6 43.8 " 50.0 87.6 Prepared: 06/11/20 0 Analyzed: 0 06/11/20 0 Analyzed: 0 431 25.0 mg/kg 500 86.2 46.6 " 50.0 93.1 Source: P006026-01 Prepared: 06/11/20 0 Analyzed: 0 3660 125 mg/kg 500 3740 NR 56.6 " 50.0 113 113 113 Source: P006026-01 Prepared: 06/11/20 0 Analyzed: 0 113	Reporting Result Spike Limit Source Units %REC %REC Result Limit Units Prepared & Analyzed: %REC Limits ND 25.0 mg/kg MD 50.0 " 43.8 " 50.0 87.6 50-200 Prepared: 06/11/20 0 Analyzed: 06/11/20 1 431 25.0 mg/kg 500 86.2 38-132 46.6 " 50.0 93.1 50-200 Source: P006026-01 Prepared: 06/11/20 0 Analyzed: 06/11/20 1 36600 125 mg/kg 500 3740 NR 38-132 56.6 " 50.0 11/3 50-200 11/3 50-200 Source: P006026-01 Prepared: 06/11/20 0 Analyzed: 06/11/20 1 4300 125 mg/kg 500 3740 111 38-132	Reporting Result Spike Limit Spike Units Source Result %REC Limits RPD ND 25.0 mg/kg ND mg/kg RPD 43.8 " 50.0 " <td< td=""><td>Reporting Result Spike Limit Source Result %REC %REC RPD Limit RPD Limit ND 25.0 mg/kg RPD Limit Limit RPD Limit RPD Limit RPD Limit Limit RPD Limit Limit</td></td<>	Reporting Result Spike Limit Source Result %REC %REC RPD Limit RPD Limit ND 25.0 mg/kg RPD Limit Limit RPD Limit RPD Limit RPD Limit Limit RPD Limit Limit





Grizzly Energy	Project Name:	Millman Sb State #2	
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

Envirotech Analytical Laboratory										
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2024013 - Purge and Trap EPA 5030A										
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 A	analyzed: 0	6/11/20 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)	Sour	ce: P006026-	01	Prepared: 0	6/11/20 0 A	analyzed: 0	6/11/20 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)	Sour	ce: P006026-	01	Prepared: 0	06/11/20 0 A	analyzed: 0	6/11/20 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			





Grizzly Energy	Project Name:	Millman Sb State #2	
4001 Penbrook Suite 201	Project Number:	19054-0003	Reported:
Odessa TX, 79762	Project Manager:	Eddie Gaytan	06/12/20 15:20

Anions by EPA 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2024016 - Anion Extraction EPA 300.0/9056A										
Blank (2024016-BLK1)				Prepared: 0	6/11/20 0 A	analyzed: 0	6/11/20 1			
Chloride	ND	20.0	mg/kg							
LCS (2024016-BS1)				Prepared: 0	6/11/20 0 A	analyzed: 0	6/11/20 1			
Chloride	251	20.0	mg/kg	250		100	90-110			
Matrix Spike (2024016-MS1)	Sour	ce: P006036-0)1	Prepared: 0	6/11/20 0 A	analyzed: 0	6/11/20 1			
Chloride	254	20.0	mg/kg	250	ND	102	80-120			
Matrix Spike Dup (2024016-MSD1)	Sour	ce: P006036-0)1	Prepared: 0	6/11/20 0 A	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.





Grizzly Energy	Project Name:	Millman Sb State #2	
4001 Penbrook Suite 201	Project Number:	19054-0003	Reported:
Odessa TX, 79762	Project Manager:	Eddie Gaytan	06/12/20 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.
NID	An elite NOT DETECTED at an eliterative limit

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

Relative Percent Difference RPD

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

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



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ient: Grizzly Energy			Report Atte	ntion	1		L	ab U	se Only	10.80		T	AT	E	PA Pr	ogran	n ;
roject: Millman Sb State			Report due by: HUNGRY H	IORSE LLC	Lab	WO#	#		Job N	umber		1D	3D	RCRA	CM	/A	SD\
roject Manager: Eddie G	iaytan		Attention: EDDIE GAYTAN	1982	Pr	5	02	30	1900	H.a	xB	X					
ddress:			Address: 4024 PLAINS HW	Υ					Analysi							Stat	
ity, State, Zip			City, State, Zip	110	15	15									NM	CO	UT
hone: (575) 441-0212			Phone: (575) 441-0212		v 80	y 80	-		0.0								
mail: EGAYTAN@HUNG	RY-HORSE.	СОМ	Email: EGAYTAN@HUNG	RY-HORSE.COM	Q þ	0 pi	802	8260	300	05	Σ	¥1			×		
Time Date Matrix	No Containers	Sample ID	1	Lab Numb	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005	BGDOC - NM	BGDOC - TX				Rema	irks
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mple Matrix: S - Soil, Sd - Solid, Sg			or propromonte oro model. Unevent	Contair													
			er arrangements are made. Hazardous sa lity of the laboratory is limited to the amo			r dispos	sed of a	at the d	lient expe	ense. The	report	for the	e analysis	of the abo	ove sam	oles is a	pplica
in to those sumples received by the	ic laboratory w	in this cool. The liab	inty of the laboratory is inflited to the allio											1 Hills Ver	-		-
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BEFORE PHOTOS



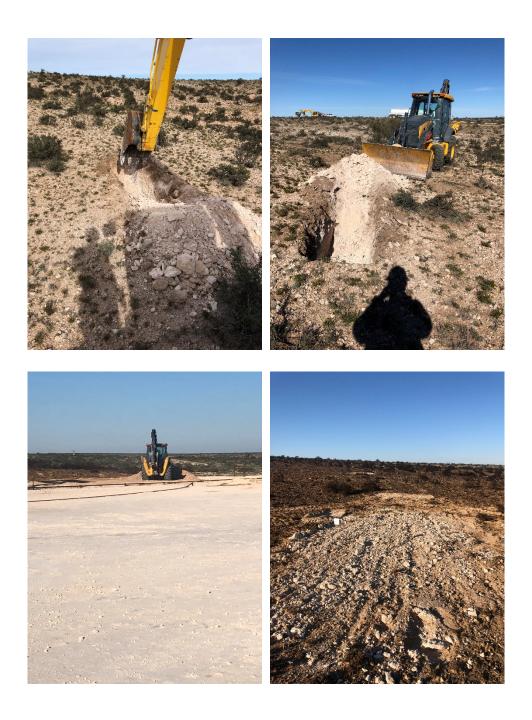






DURING PHOTOS









FINAL PHOTOS













Oil Conservation Division

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

Page 133 of 133

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 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Carmen E Pitt Title: Senior EHS Specialist Signature: <u>Carman Pätt</u> Date: <u>6/17/2020</u> email: cpitt@grizzlyenergyllc.com Telephone: 432-248-8145 **OCD Only** Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date: Printed Name: Title: