

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 March 17, 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

Dear Robert,

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 Hydrocarbon impacted mesquite was removed and also hauled to Lea Land. 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 and mesquite was hauled to Lea Land.

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.

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,

Natalie Gladden

Director of Environmental & Regulatory Services

Hungry Horse, LLC 4024 Plains Highway Lovington, NM 88260

Cell: (575) 390-6397

Email: ngladden@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

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

Release Notification

Responsible Party

			100	Ponsi		J
Responsible Party Vanguard Operating, LLC			OGRID 25	58350		
Contact Name Jason Fisher			Contact Te	lephone 505—918-0523		
Contact emai	il jfisher@vı	nrenergy.com			Incident#	(assigned by OCD) NMAP1826969177
Contact mail 79762	ing address	4001 Penbrooke S	uite 201 Odessa, 7	ΓX		
			Location	n of R	telease S	ource
Latitude 32.	658802		(NAD 83 in d	lecimal de	Longitude grees to 5 deci	-104.1830902 mal places)
Site Name N	Aillman SB	State #2			Site Type	Well Site
Date Release	e Discovered	d 9-11-2018			API# 30-0	15-24756
· · · ·	- · ·					
Unit Letter	Section	Township	Range	County		<u> </u>
K	16	19S	28E	Eddy		
Surface Own		Federal 7	Nature an	ıd Vol	lume of l	Release
☐ Crude Oil Volume Released (bbls) 28		III calouiui	IONS OF SPECIAL	Volume Recovered (bbls) 0		
Produced Water Volume Released (bbls)		***************************************		Volume Recovered (bbls)		
Is the concentration of dissolved chloride i produced water >10,000 mg/l?		in the	Yes No			
Condensate Volume Released (bbls)		_	Volume Recovered (bbls)			
Natural Gas Volume Released (Mcf)		Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovery		Volume/Weight Recovered (provide units)				
						rpressure and release through the relief valve. A large displacement of the pipe string.
B&B Backho	e began scra	aping and stockpili	ing the soil. TRC	will beg	gin sampling	g to delineate the area and prepare a work plan.

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 Incident ID
 NMAP1826969177

 District RP
 2RP-4983

 Facility ID
 N/A

 Application ID
 pMAP1826968910

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the response Greater than 25 bbls.	nsible party consider this a major release?
X Yes No		
	otice given to the OCD? By whom? To w to Mike Bratcher by email 9-12-2018 5:04	hom? When and by what means (phone, email, etc)? pm.
	Initial 1	Response
The responsible	e party must undertake the following actions immedic	tely unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
☐ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed an	nd managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
has begun, please attach	a narrative of actions to date. If remedial	remediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investiga	required to report and/or file certain release not nent. The acceptance of a C-141 report by the ate and remediate contamination that pose a thr	best of my knowledge and understand that pursuant to OCD rules and ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name:Chuc	k Johnston	Title:EHS Operations Specialist
Signature:	John John John John John John John John	Date:9-24-2018_
email:cjohnston@vi	nrenergy.com	Telephone:432-202-4771
OCD Only		
1/1	MICO	00/00/40
Received by:		Date: 09/26/18

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

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

Cc: Mann, Ryan

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

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

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

image001.png

Hello Mr. Johnston,

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

Best Regards,

Environmental Specialist

Maria Pruett

N.M. Oil Conservation Division

District 2

811 S. 1st Street Artesia, NM 88210

Desk: 575 748-1283 X 101

Cell: 575 840-5963 Fax: 575748-9720

From: Chuck Johnston < cjohnston@vnrenergy.com>

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

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

Subject: Millman SB State #2 C-141

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

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



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1625 N. French Dr., Hobbs, NM 88240
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1000 Rio Brazos Road, Aztec, NM 87410
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State of New Mexico Energy Minerals and Natural Resources Department

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

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District RP	2RP-4983
Facility ID	N/A
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Release Notification

Responsible Party

			Kes	honsi	Die Fai	Ly	
Responsible	Party Vang	uard Operating, L	LC	***************************************	OGRID 2:	58350	
Contact Name Jason Fisher				elephone 505—			
Contact emai	il jfisher@vı	nrenergy.com			Incident#	(assigned by OCD)	NMAP1826969177
Contact mail 79762	ing address	4001 Penbrooke S	uite 201 Odessa, 7				
			Location	1 of R	telease S	Source	
Latitude 32.	658802		(NAD 83 in d	lecimal de	Longitude grees to 5 deci	-104.1830902 imal places)	
Site Name N	Aillman SB	State #2	<u></u>		Site Type	Well Site	
Date Release	e Discovered	d 9-11-2018			API# 30-015-24756		
Unit Letter	Section	Township Range County					
K	16	19S	28E	Eddy			
Surface Own	er: State	Federal []	Γribal Private	(Name:)
			Nature an	ıd Vol	lume of	Release	
	Mater	ial(s) Released (Select	all that apply and attac	h calculat	ions or specifi	c justification for th	ne volumes provided below)
Crude Oil		Volume Release	d (bbls) 28			Volume Reco	vered (bbls) 0
Produced Water Volume Released (bbls)			Volume Reco	vered (bbls)			
Is the concentration of dissolved chloride in the produced water >10,000 mg/l? Yes □ No							
☐ Condensa				Volume Reco	vered (bbls)		
Natural Gas Volume Released (Mcf)			Volume Reco	vered (Mcf)			
Other (describe) Volume/Weight Released (provide units)			Volume/Weig	tht Recovered (provide units)			
			ffset frac causing t e oil was estimated				elease through the relief valve. A large of the pipe string.

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

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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respondence of	sible party consider this a major release?
X Yes No		
	otice given to the OCD? By whom? To who Mike Bratcher by email 9-12-2018 5:04 p	om? When and by what means (phone, email, etc)? m.
	Initial R	Response
The responsible	e party must undertake the following actions immediat	ely unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
The impacted area has	s been secured to protect human health and	the environment.
	•	ikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed and	-
*	d above have not been undertaken, explain	
D 10.15.00.0 D (4) ND		
has begun, please attach a	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
regulations all operators are public health or the environm failed to adequately investiga	required to report and/or file certain release noti- nent. The acceptance of a C-141 report by the C ate and remediate contamination that pose a thre	pest of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger ICD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name:Chuc	Johnston	Title:EHS Operations Specialist
Signature:	phs	Date:9-24-2018_
email:cjohnston@vr	nrenergy.com	Telephone:432-202-4771
OCD Only	1111	
Received by:	Muco	Date: 09/26/18

Received by OCD: 3/17/2020 2:28:09 PM
Form C-141 State of New Mexico
Page 3 Oil Conservation Division

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

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: 3/17/2020 2:28:09 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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ncident ID	
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nnlication ID	

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: 2/7/19
email: _Natalie.Gladden@whitebuffalo.com_ Telephone:575-390-6397
OCD Only
Received by: Robert Hamlet Date: 4/26/2019

Received by OCD: 3/17/2020 2:28:09 PM Form C-141 State of New Mexico

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Oil Conservation Division

Incident ID	NMAP1826969177
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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: 2/7/19 email:natalie.gladden@whitebuffalo.com Telephone:575-390-6397 Telephone:575-390-6397
OCD Only
Received by: Robert Hamlet Date: 4/26/2019
Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: 4/26/2019

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Incident ID	NMAP1826969177
District RP	2RP-4983
Facility ID	
Application ID	pMAP1826968910

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities
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:Carmen E Pitt Date:3/17/2020 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:

Hamlet, Robert, EMNRD

From: Hamlet, Robert, EMNRD

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

To: 'Natalie Gladden'

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

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

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

Natalie,

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

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

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

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

Please let me know if you have any further questions.

Regards,

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

Robert.Hamlet@state.nm.us

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

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

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

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

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

Importance: High

Natalie Gladden

Regulatory & Environmental Director



White Buffalo Environmental, Inc.

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

From: Natalie Gladden

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

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

Importance: High

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

Thank you

Natalie Gladden

Regulatory & Environmental Director



White Buffalo Environmental, Inc.

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

C: (575) 390-6397

From: Natalie Gladden

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

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

Mike,

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

Thank you for your assistance.

Natalie Gladden

Regulatory & Environmental Director



White Buffalo Environmental, Inc.

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

C: (575) 390-6397



Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

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

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

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



Wells with Well Log Information

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

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

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

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

Record Count: 3

UTMNAD83 Radius Search (in meters):

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

*UTM location was derived from PLSS - see Help

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

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



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

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

X

CP 00361 POD1

3 09 19S 28E

576094 3615246*

Driller License:

Driller Company:

Driller Name:

LOWE DRILLING CO.

Drill Start Date: 04/19/1971

Drill Finish Date:

05/13/1966

Plug Date:

Shallow

Log File Date:

05/25/1971

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

8.63

Depth Well:

365 feet

Depth Water:

265 feet

Water Bearing Stratifications:

Top Bottom Description

265

365 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

288 348



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X

CP 00478 POD1

05 19S 28E

575300 3617036*

Driller License: 406

Driller Company: TIDWELL, CLYDE J.

Driller Name:

CLYDE TIDWELL

Drill Start Date:

12/12/1969

Drill Finish Date:

12/23/1969

Plug Date:

Log File Date:

01/02/1970

PCW Rcv Date:

11/01/1971

Source:

Shallow

Pump Type:

SUBMER

Pipe Discharge Size:

Estimated Yield: 7 GPM

Casing Size:

7.00

Depth Well:

312 feet

Depth Water:

145 feet

Water Bearing Stratifications:

Top Bottom Description

150

160 Sandstone/Gravel/Conglomerate

200

Sandstone/Gravel/Conglomerate 262

Casing Perforations:

Top Bottom

140

262



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

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

X

CP 00502

18 19S 28E

573001 3614478*

Driller License: 30

Driller Company: BARRON, EMMETT

Driller Name:

BARRON, EMMETT

Drill Start Date: 03/23/1972

Drill Finish Date:

03/25/1972

Plug Date:

Log File Date:

04/05/1972

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

5.25

Depth Well:

100 feet

Depth Water:

91 feet

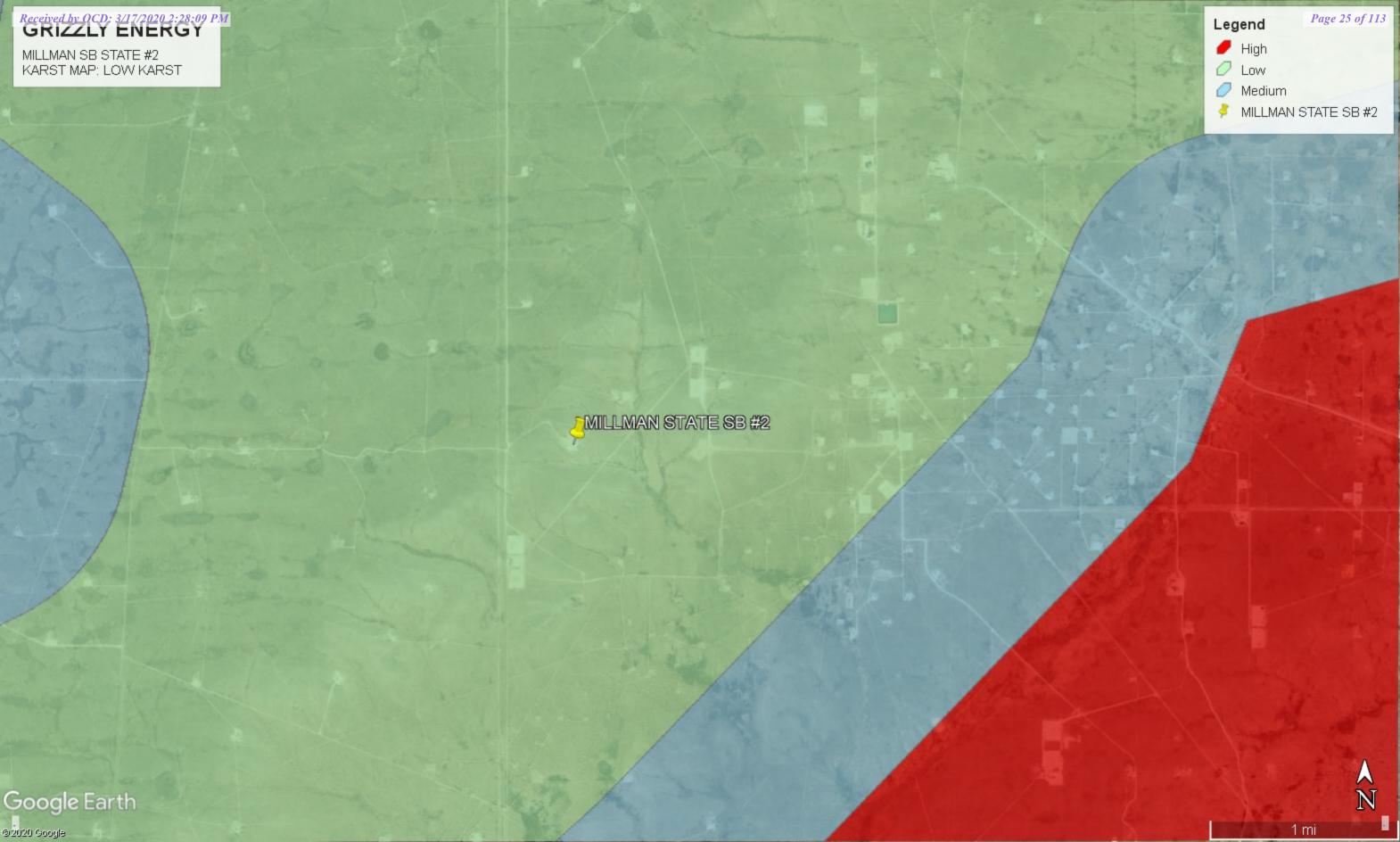
Water Bearing Stratifications:

Top Bottom Description

95

100 Sandstone/Gravel/Conglomerate





VANGUARD - MILLMAN SB STATE #2

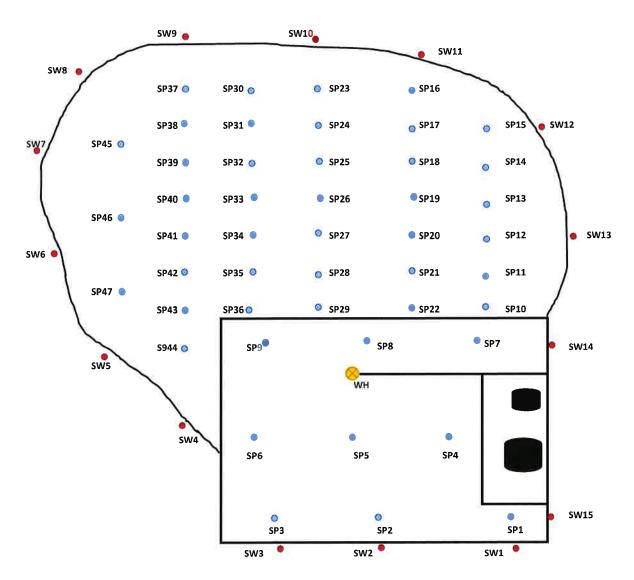
Sample ID	Ft	Field Chl	Titration	PID	Lab-Chl	Lab-BTEX	Lab-GRO	Lab-DRO	Lab-MRO	TPH	Soil	Notes
SP1	SUR	<30										
	2'	252	94		384	<0.300	<10	<10	<10	<10	CAL	
SP2	SUR	<30										
	2'		64		320	<0.300	<10	<10	<10	<10	CAL	
SP3	SUR	<30										
	2'	<30	70		32	<0.300	<10	<10	<10	<10	CAL	
SP4	SUR	<30										
	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	44		48	<0.300	<10	<10	<10	<10	CAL	
SP11	SUR	<30										
	2'	<30	46		32	<0.300	<10	11.4	<10	11.4	CAL	
SP12	SUR	<30										
	2'	<30	50		48	<0.300	<10	<10	<10	<10	CAL	
SP13	SUR	<30										
	2'	<30	42		32	<0.300	<10	<10	<10	<10	CAL	
SP14	SUR	<30										
	2'	<30	46		32	<0.300	<10	12.9	<10	12.9	CAL	
SP15	SUR	<30										
	2'	<30	48		32	<0.300	<10	<10	<10	<10	CAL	
SP16	SUR	<30										
	2'	<30	42		<16	<0.300	<10	<10	<10	<10	CAL	

SP17	SUR	<30									
51 17	2'	<30	58	32	<0.300	<10	<10	<10	<10	CAL	
SP18	SUR	<30	30	32	10.500	110	110	110	110	CAL	
31 10	2'	<30	50	32	<0.300	<10	<10	<10	<10	CAL	
SP19	SUR	<30	30	32	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	CAL	
3113	2'	<30	48	32	<0.300	<10	<10	<10	<10	CAL	
SP20	SUR	<30	40	32	<u> </u>	<u> </u>	\10	\10	<u> </u>	CAL	
3P2U	2'	<30	64	48	<0.200	<10	16.4	<10	16.4	CAL	
CD21		<30	04	48	<0.300	<10	16.4	<10	16.4	CAL	
SP21	SUR 2'	,20	F.O.	40	10, 200	-10	F4 2	110	F4 2		
6000		<30	58	48	<0.300	<10	51.3	<10	51.3		
SP22	SUR		12	22	0.200	.10	4.0	40	40	C 4 1	
	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								<u> </u>	
	2'	<30	62	32	<0.300	<10	<10	<10	<10	CAL	
SP33	SUR	<30			101000	120	120			<u> </u>	
3. 33	2'	<30	58	16	<0.300	<10	<10	<10	<10	CAL	
		\30	30	10	\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	
SW2	SUR	<30									
	2'	<30	54	48	<0.300	<10	288	138	426	CAL	
SW3	SUR	<30									
	2'	<30	54	32	<0.300	<10	<10	<10	<10	CAL	

SW4	SUR	<30									
	2'	<30	48	32	<0.300	<10	<10	<10	<10	CAL	
SW5	SUR	<30									
	2'	<30	40	<16	<0.300	<10	<10	<10	<10	CAL	
SW6	SUR	<30									
	2'	<30	42	<16	<0.300	<10	<10	<10	<10	CAL	
SW7	SUR	<30									
	2'	<30	46	32	<0.300	<10	<10	<10	<10	CAL	
SW8	SUR	<30									
	2'	<30	48	<16	<0.300	<10	<10	<10	<10	CAL	
SW9	SUR	<30									
	2'	<30	50	32	<0.300	<10	<10	<10	<10	CAL	
SW10	SUR	<30									
	2'	<30	56	32	<0.300	<10	<10	<10	<10	CAL	
SW11	SUR	<30									
	2'	<30	42	16	<0.300	<10	<10	<10	<10	CAL	
SW12	SUR	<30									
	2'	<30	48	<16	<0.300	<10	<10	<10	<10	CAL	
SW13	SUR	<30									
	2'	<30	42	<16	<0.300	<10	<10	<10	<10	CAL	
SW14	SUR	<30									
	2'	<30	46	32	<0.300	<10	<10	<10	<10	CAL	
SW15	SUR	<30									
	2'	<30	42	16	<0.300	<10	<10	<10	<10	CAL	

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



- Sample Points
- Side Wall Sample Points





November 12, 2018

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

RE: MILLMAN SB ST #2

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

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524,2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NOT GIVEN

NONE GIVEN

Sampling Date:

Sampling Type:

10/31/2018 Soil

Sampling Condition:

Sample Received By:

Cool & Intact

Tamara Oldaker

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	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	175	87.6	200	13.0	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	182	90.8	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	94.0 5	% 41-142							
Surrogate: 1-Chlorooctadecane	81.49	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celeny & treens

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

10/31/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.9	% 69.8-14	2						
Chloride, SM4500CI-B	500Cl-B mg/kg			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	% 37.6-14	7						

Cardinal Laboratories

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Celeg to Keene

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 53



Analytical Results For:

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

Received:

11/06/2018

Reported:

BTEX 8021B

GRO C6-C10*

DRO >C10-C28*

EXT DRO >C28-C36

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN

mg/kg

Sampling Date:

10/31/2018

Sampling Type:

Soil

 ${\bf Sampling\ Condition:}$

Cool & Intact

Sample Received By:

Tamara Oldaker

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	96.5	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND =	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

ND

ND

ND

176

192

0.88

96.1

200

200

9.72

11.5

11/08/2018

11/08/2018

11/08/2018

Analyzed By: ms

Surrogate: 1-Chlorooctane 83.1 % 41-142
Surrogate: 1-Chlorooctadecane 86.0 % 37.6-147

<10.0

<10.0

<10.0

10.0

10.0

10.0

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Celeny D. Kreene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN

Sampling Date:

g Date:

Soil

Sampling Type: Sampling Condition:

Cool & Intact

10/31/2018

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	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	85.6	% 41-142							
Surrogate: 1-Chlorooctadecane	85.9	% 37.6-14	7						

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Celey T. Keens

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

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

10/31/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

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

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

BTEX 8021B

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN

mg/kg

Sampling Date:

10/31/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

	97	119	7 many me	a by tillo					
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	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	Qualifie
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Analyzed By: ms

Surrogate: 1-Chlorooctadecane

Surrogate: 1-Chlorooctane

91.1%

41-142

92.0 %

37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN

Sampling Date:

11/01/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	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	93.4	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	90.8	% 41-142							
Surrogate: 1-Chlorooctadecane	90.8	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

11/01/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

В٦	TEX	802	21B
_			

ma/ka	Analyzed By:	ms

DIEX GOZID	11197	Kg .	Andryze	a byr 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	NĐ	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, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Surrogate: I-Chlorooctane

91.0 %

41-142

Surrogate: 1-Chlorooctadecane

91.1%

37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

11/01/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 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 (PIL	95.5 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/09/2018	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					

41-142

37.6-147

93.1 %

92.1 %

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Surrogate: 1-Chlorooctane

Surrogate: I-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

11/06/2018

Reported:

Project Name:

Project Number:

Project Location:

11/12/2018

MILLMAN SB ST #2

NONE GIVEN NOT GIVEN

Sampling Date: Sampling Type:

11/01/2018 Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.9 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10,0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	92.69	% 41-142							
Surrogate: 1-Chlorooctadecane	92.49	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received: Reported: 11/06/2018

11/12/2018

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

Project Location:

NOT GIVEN

96.5 %

37.6-147

Sampling Date:

Sampling Type: Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

11/01/2018

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

BTEX 8021B	_mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	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	96.3	% 69.8-142	2						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	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*	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					

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

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Celeg Theene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018 MILLMAN SR ST

Project Name: Project Number: MILLMAN SB ST #2

Project Location:

NONE GIVEN

97.2 %

37.6-147

Sampling Date:

11/01/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0,150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.9	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	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 9	% 41-142							

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Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

11/01/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B

mg/kg

Analyzed By: ms

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

Surrogate: 4-Bromofluorobenzene (PIL	95.5	<i>%</i> 69.8-142							
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane

91.9%

41-142

Surrogate: 1-Chlorooctadecane

90.0 %

37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date: Sampling Type:

192

ND

ND

96.1

200

11.5

11/01/2018

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX	80218

10.0

10.0

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	94.4	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg/kg			Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

11/08/2018

11/08/2018

Surrogate: 1-Chlorooctane 94.6% 41-142 94.6% 37.6-147 Surrogate: I-Chlorooctadecane

12.9

<10.0

Cardinal Laboratories

DRO >C10-C28*

EXT DRO >C28-C36

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 15 of 53



Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

11/01/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/k	g
Analyte	Result	R

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					

Analyzed By: ms

Surrogate: 4-Bromofluorobenzene (PIL	94.6 %	69.8-142	
--------------------------------------	--------	----------	--

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

Surrogate: 1-Chlorooctane 94.4 % 41-142 Surrogate: 1-Chlorooctadecane 94.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

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

11/01/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

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	11/09/2018	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	95.69	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2018	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 9	% 41-142							
Surrogate: 1-Chlorooctadecane	95.9 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

11/12/2018

Sampling Date: Sampling Type: 11/01/2018

Reported:

BTEX 8021B

Soil

Project Name:

MILLMAN SB ST #2

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN **NOT GIVEN**

mg/kg

Sample Received By:

Tamara Oldaker

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

DIEX GOZID	mg/	ng .	Analyze	d by. ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0,300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.1 %	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	(+)
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Analyzed By: ms

Surrogate: 1-Chlorooctadecane

89.6 %

41-142

Surrogate: 1-Chlorooctane

89.0 %

37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN

93.1%

37.6-147

Sampling Date: Sampling Type:

11/01/2018

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/kg		Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.7 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg/l	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 %	6 41-142							

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Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number:

NONE GIVEN Project Location: NOT GIVEN

Sampling Date:

11/01/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	93.2	% 69.8-14	2						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	400	100	400	0.00	QM-07
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10,0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	92.0 9	% 41-142							
Surrogate: 1-Chlorooctadecane	92.19	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:

11/06/2018

Reported:

BTEX 8021B

11/12/2018

Project Name:

MILLMAN SB ST #2 NONE GIVEN

mg/kg

89.3 %

86.8 %

41-142

37,6-147

Project Number: Project Location:

NOT GIVEN

Sampling Date:

11/01/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

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 9	69,8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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					

Analyzed By: MS

Cardinal Laboratories

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received: Reported:

BTEX 8021B

11/06/2018

11/12/2018

м

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN

mg/kg

Sampling Date:

oling Date:

11/01/2018 Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/08/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/08/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Chloride, SM4500Cl-B Analyte	mg/ Result	Reporting Limit	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
*			· ·	·	BS 400	% Recovery	True Value QC	RPD 0.00	Qualifier
Analyte	Result	Reporting Limit	Analyzed 11/09/2018	Method Blank		•	•		Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 11/09/2018	Method Blank		•	•		Qualifier Qualifier
Analyte Chloride TPH 8015M	Result 48.0 mg/	Reporting Limit 16.0	Analyzed 11/09/2018 Analyze	Method Blank ND d By: MS	400	100	400	0.00	

ND

11/09/2018

Analyzed By: MS

Surrogate: 1-Chlorooctane 95,3 % 41-142
Surrogate: 1-Chlorooctadecane 95,4 % 37.6-147

<10.0

10.0

Cardinal Laboratories

EXT DRO >C28-C36

*=Accredited Analyte

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Analytical Results For:

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

Received:

11/06/2018

Reported:

BTEX 8021B

11/12/2018

mg/kg

96.1%

85.8 %

41-142

37.6-147

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

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

11/02/2018

Sample Received By:

Tamara Oldaker

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/08/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/08/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 %	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analisha									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	Result 32.0	Reporting Limit	Analyzed 11/09/2018	Method Blank ND	BS 400	% Recovery 100	True Value QC 400	RPD 0.00	Qualifier
·		16.0	11/09/2018			•	•		Qualifier
Chloride	32.0	16.0	11/09/2018	ND		•	•		Qualifier Qualifier
Chloride TPH 8015M	32.0 mg/	16.0 kg	11/09/2018 Analyze	ND d By: MS	400	100	400	0.00	
Chloride TPH 8015M Analyte	32.0 mg/ Result	16.0 kg Reporting Limit	11/09/2018 Analyze Analyzed	ND d By: MS Method Blank	400 BS	100 % Recovery	400 True Value QC	0.00	

Analyzed By: MS

Cardinal Laboratories

Surrogate: 1-Chlorooctane

Surrogate: I-Chlorooctadecane

*=Accredited Analyte

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

85.2 %

37.6-147

Project Name:

MILLMAN SB ST #2

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

11/02/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 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 %	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	99,3	% 41-142							

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Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN

90.6 %

76.8 %

41-142

37.6-147

NOT GIVEN

Sampling Date:

Sampling Type:

11/02/2018

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	11/08/2018	ND	1.91	95.4	2.00	0.126	
<0.050	0.050	11/08/2018	ND	1.87	93.3	2.00	0.583	
<0,050	0.050	11/08/2018	ND	1.82	91.2	2.00	0.584	
<0.150	0,150	11/08/2018	ND	5.51	91.8	6.00	0.251	
<0.300	0.300	11/08/2018	ND					
101 9	69.8-14	2						
mg/	kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
32.0	16.0	11/09/2018	ND	400	100	400	0.00	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
		11/08/2018	ND					
	Result <0.050 <0.050 <0.050 <0.150 <0.300 1019 mg/ Result 32.0 mg/ Result <10.0 <10.0	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300 //// 69.8-14 mg/kg Result Reporting Limit 32.0 16.0 mg/kg Result Reporting Limit <10.0 10.0	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

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Surrogate: 1-Chlorooctane

Surrogate: I-Chlorooctadecane

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

11/02/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

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	12
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5,51	91.8	6.00	0.251	
Total BTEX	<0,300	0.300	11/08/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	102 %	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	107 9	6 41-142							
Surrogate: 1-Chlorooctadecane	92.19	% 37.6-14	7						

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number:

Analyte

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

11/02/2018

Sampling Type: Soil

% Recovery

Sampling Condition:

Cool & Intact

True Value QC

Sample Received By:

Tamara Oldaker

Qualifier

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

BTEX 8021B	
------------	--

Reporting Limit

Result

Analyzed	By:	MS
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Method Blank

Analyzed

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

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

11/02/2018

Sample Received By:

Tamara Oldaker

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

BI	ŁΧ	80	2:	ΙB	
_	_	_	_	_	-

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					
<u> </u>									

Surrogato: A Promofluorobonzona (DIF

102 0/

60 8 142

Chloride, SM4500Cl-B	1(13 % 69.8-142 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	NĐ	400	100	400	0.00	
TPH 8015M	/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane

106 %

41-142

Surrogate: 1-Chlorooctadecane

95.0 %

37.6-147

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Analytical Results For:

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

Received:

11/06/2018

Reported:

BTEX 8021B

11/12/2018

mg/kg

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

11/02/2018 Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

RPD

0.126 0.583 0.584 0.251 Qualifier

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2,00
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00
Total BTEX	<0.300	0.300	11/09/2018	ND			

Surrogate: 4-Bromofluorobenzene (PIE	102	% 69.8 - 142							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Analyzed By: MS

Surrogate: 1-Chlorooctane

105 %

41-142

Surrogate: 1-Chlorooctadecane

93.8 %

37.6-147

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

11/02/2018

Sampling Type: Sampling Condition: Soil

Sample Received By:

Cool & Intact

Tamara Oldaker

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

	EV		~	
_	_	_	_	_

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	101	% 69.8-142							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Surrogate: I-Chlorooctane

113 %

41-142

Surrogate: 1-Chlorooctadecane

99.5 %

37.6-147

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

93.4%

37.6-147

Project Name:

MILLMAN SB ST #2 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

11/02/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91,2	2,00	0,584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5,51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	69.8-14	2						
Chloride, SM4500Cl-B	oride, 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 %	6 41-142							

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Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

11/02/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	69.8-14	2						
Chloride, SM4500CI-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	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 %	6 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

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

11/02/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0,150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	102 9	69.8-14.	2						
nloride, SM4500CI-B mg/kg		Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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 %

37.6-147

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

11/05/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Tamara Oldaker

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

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Analyzed By: M	S
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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 5	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	ka	Analyza	d By: AC					
Chloride, Sh4500Cl-b	ilig/	N.Y	Allalyze	d by. Ac					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
			·	_ ·	BS 400	% Recovery	True Value QC 400	RPD 0.00	Qualifier
Analyte	Result	Reporting Limit	Analyzed 11/09/2018	Method Blank		,	•		Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 11/09/2018	Method Blank		,	•		Qualifier Qualifier
Analyte Chloride TPH 8015M	Result 32.0 mg/	Reporting Limit 16.0	Analyzed 11/09/2018 Analyze	Method Blank ND d By: MS	400	100	400	0.00	
Analyte Chloride TPH 8015M Analyte	Result 32.0 mg/	Reporting Limit 16.0 kg Reporting Limit	Analyzed Analyzed	Method Blank ND d By: MS Method Blank	400 BS	100 % Recovery	400 True Value QC	0.00	

Surrogate: 1-Chlorooctane

95.5 %

41-142

Surrogate: 1-Chlorooctadecane

88.7%

37.6-147

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

11/05/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	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 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2018	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	% 37.6-14	7						

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number:

NONE GIVEN Project Location: **NOT GIVEN**

Sampling Date:

Sample Received By:

Sampling Type:

Soil

11/05/2018

Sampling Condition:

Cool & Intact Tamara Oldaker

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

BTEX 8021B	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	104 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2018	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	% 37.6-14	7						

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

11/05/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyzed	By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					

Surrogate: 4-Bromofluorobenzene (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 %

41-142

Surrogate: 1-Chlorooctadecane

91.1%

37.6-147

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name: Project Number: MILLMAN SB ST #2

Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

11/05/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	103 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	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:

Received:

BTEX 8021B

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

mg/kg

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

11/05/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0,300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 %	69.8-142							
Chlorida Christopolin	11-	_	Austral	J D & C					

Analyzed By: MS

Chloride, SM4500Cl-B	mg,	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/09/2018	ND	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	
ORO >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 %

37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

87.0 %

37.6-147

Sampling Date:

11/05/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	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	% 69.8-14.	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/09/2018	ND	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					

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Surrogate: I-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

11/05/2018

Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

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

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Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

Sampling Type:

11/05/2018

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.63	81.5	2.00	2.61	
Toluene*	<0.050	0.050	11/09/2018	ND	1.76	88.1	2.00	1.24	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.84	92,2	2.00	0.505	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.56	92.7	6.00	0.118	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 69.8-14	2						
Chloride, 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	% 41-142							
Surrogate: 1-Chlorooctadecane	78.7	% 37.6-14.	7						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

11/05/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

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

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

11/06/2018

Reported:

BTEX 8021B

11/12/2018

Project Name:

MILLMAN SB ST #2

ma/ka

83.1 %

80.5 %

41-142

37,6-147

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

11/05/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

BIEY 9ASTR	nig/	KY	Allalyze	u by, M3					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.63	81.5	2.00	2.61	
Toluene*	<0.050	0.050	11/09/2018	ND	1.76	88.1	2.00	1.24	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.84	92.2	2.00	0.505	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.56	92.7	6.00	0.118	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	96.3 %	69.8-14.	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	172	86.1	200	7.44	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	197	98.3	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					
2									

Analyzed By: MS

Cardinal Laboratories

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager

Page 44 of 53



Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

11/05/2018

Tamara Oldaker

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

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.63	81.5	2.00	2.61	
Toluene*	<0.050	0.050	11/09/2018	ND	1.76	88.1	2.00	1.24	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.84	92.2	2.00	0.505	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.56	92.7	6.00	0.118	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 5	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/09/2018	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	172	86.1	200	7.44	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	197	98.3	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					
Surrogate: 1-Chlorooctane	83.9	% 41-142	,	X					
Surrogate: 1-Chlorooctadecane	81.2	% 37.6-14	7						

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Analytical Results For:

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

Received:

11/06/2018

Reported: Project Name: 11/12/2018

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

11/05/2018

Sampling Type: Sampling Condition: Soil

Sample Received By:

Cool & Intact

Tamara Oldaker

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

BTEX 8021B

GRO C6-C10*

DRO >C10-C28*

EXT DRO >C28-C36

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	102 %	69.8-14.	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	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

ND

ND

172

197

86.1

98.3

200

200

7.44

8,45

11/09/2018

11/09/2018

11/09/2018

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

<10.0

<10.0

<10.0

10.0

10.0

10.0

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Celey D. Keene, Lab Director/Quality Manager

Page 46 of 53



Analytical Results For:

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

Received:

11/06/2018

Reported:

11/12/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN **NOT GIVEN**

Sampling Date:

11/05/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

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					

Surroguie. 4-Dromojiuorovenzene (FID	102	70 09.0-14	2						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/09/2018	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	172	86.1	200	7.44	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND _	197	98.3	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					

Surrogate: 1-Chlorooctane

80.3 %

41-142

Surrogate: 1-Chlorooctadecane

76.0 %

37.6-147

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Notes and Definitions

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

17	(4) 000 money (v. v)			ANIAL YOR DECLIECT
Company Name:	Animaco		BILL JU	ANALIGIO
Project Manager:	•		P.O. #:	
Address:			Company: White Bu	Jado Obaja
City:	State:	Zip:	Attn: Steve TYPFor	3
Phone #:	Fax #:		Address: 8908 yalle	Ave: 200
Project #:	Project Owner:	mer:	city: Julia "	
ате:	MININES OB ST.	10	State: OK Zip: 74/37	37
2 ∣			Phone #: 918-660-0999	2999
Sampler Name:	Somewar Com	§	Fax #:	
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	
Lab I.D.	Sample I.D.	OR (C)OMP AINERS IDWATER WATER	ASE: DOL	TER
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	SP1-2'	<i>€</i>	10/2/18	4:4/
7	16-69C	2	10/2/188:35	2: 58
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PLEASE NOTE: Liability and Damages, analyses, All claims including those for a service. In no event shall Cardinal be fa	Carcinal's hability and clien legispence and any other car be for incidental or consequence be for incidental or consequence conseq	smalt, labelity and client's exclusive sensely for any client arising whether pose in contract or but, when the cause whatsoever shall be deemed waited unless made in which gand received by Cardinal within 30 days is exceed any other cause whatsoever shall be deemed waited unless middle included in the cause of the cardinal contract or consequential damages, including whould imitation, business including whould imitation, business includency, loss of time, or loss of profits incurred by a made including or consequential damages, including whould imitation, business including so the profits of the above stated	nd received by Cardinal within 30 days after or loss of use, or loss of profits incurred by cler in is based upon any of the above stated reado	
Relinquished By	Part By Date: 6-18	Received By:		Phone Result: ☐ Yes ☐ No Add'l Phone #: Fax Result: ☐ Yes ☐ No Add'l Fax #: REMARKS:
4	15:25	S Jumara	Markey	I mail: " a white buffelo.com
Veillidaionea ed.			,	Matalle Com
Delivered By: (Circle One)	(Circle One)	Sample Condition	ition CHECKED BY:	Monda

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

-1.70

Sample Condition
Cool Infact
Pres Pres
No No

9

CHECKED BY: (Initials)



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(5.	(575) 393-2326 FAX (5/5) 393-24/6	5) 393-24/6							
Company Name:	Avauaci)			BILL TO			ANALYSIS KI	KEQUEST	
Project Manager:			P.O. #:						
Address:			Compar	Company: White Bu	lado		-		
City:	G	State: Zip:	Attn: S	Attn: Steve TYPFortin	1				
Phone #:	Fa	Fax #:	Address	Address: 8908 Valle	Ave 210				
Project #:	Pr	Project Owner:	City:	Tulsa "					
ame:	ATTIMAN US	1/2	State: C	State: OK Zip: 74/37	2				
	- 0		Phone #	Phone #: 918-610-0999	K 668				
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Sampler Name:	domased 6	note		7	1				
FOR LAB USE ONLY		Ρ.	MATRIX	PRESERV. SAMPLING	R	_			_
		ERS		n	20	1			
Lab I.D.	Sample I.D.	RAB OR DNTAINE DUNDW	DGE HER : D/BASE:	/ COOL	P H	PL			
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7	1010 N	S	<	1 11/1/18 9:54	1 1 45:	7			
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7	16 + 18	6	<		1:43 / /	7			
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P	10-0107	6	<		2:00:3	7			
3	Span-d'	6	<	1111ths	2:14/1/		_		
PLEASE NOTE: Liability and analyses, All claims including analyses, In no event shall Cart	Damages, Cardinafs liability and client's those for negligence and any other cause that be liable for incidental or consequen	PLEASE NOTE: Liability and Damages, Cardenat's liability and client's enchance remedy for any claim arraing whether based in contract or bot, shall be limited to the ancount paid by the client for a publicable arrainyses. All claims including those for nephysens and any other causes whatsoever shall be deemed waived unless made in writing and received by Cardenal within 30 days able completion of the applicable arrainyses. All claims including those for nephysens and any other causes whatsoever shall be deemed waived unless meaning those for living and including without financials. It is not the cause of the action of the applicable service, in no event shall candinate be liable for incidentable or consequential demages, including without financials, business interruptions, base of use, or base for incidentable or incidentable or consequential demages, including without financials interruptions, base of use, or base for profits incurred by client, its actions of the applicable of the control of t	emar based in contract or tort, shall less made in writing and received by business interruptions, loss of use, o	be imited to the amount paid by Cardinal within 30 days after cook to profits incurred by citeria.	The Crent for the applicable of the applicable o				
Relinquished By:	nged By:	hate: 6-18 Received By:	ceived By: Phone Resi	P	Phone Result:	Yes □ No	Add'l Phone #: Add'l Fax #:		
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Relinquished By:	(Time:	Dy.		Mate	elle tel	Matalie islación de pullato cam	rite buffel	6. cam
Delivered By: (Circle One)	(Circle One)		ition	CHECKED BY:	Mon	ngue	Š	3	
				- William					

1.70

Sample Condition
Cool Intact
Pres Tes

CHECKED BY: (Initials)

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



November 14, 2018

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

RE: MILLMAN SB ST #2

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

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN

Sampling Date:

11/06/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2,24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2,00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.23	112	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 5	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	102 :	% 41-142							
Surrogate: 1-Chlorooctadecane	91.1	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 20



Analytical Results For:

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

Received:

11/08/2018

Reported:

11/14/2018

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

Project Location:

NOT GIVEN

Sampling Date:

11/06/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

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

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*=Accredited Analyte

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Celeg Theme

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 20



Analytical Results For:

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

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

11/06/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	< 0.050	0.050	11/13/2018	ND	2,28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.23	112	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	100 9	% 69.8-14	2						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	103 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	91.4	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 20



Analytical Results For:

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

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number:

NONE GIVEN

Sampling Date:

11/06/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

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 (PID	99.8 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	*ND					
Surrogate: 1-Chlorooctane	98.5	% 41-142							
Surrogate: 1-Chlorooctadecane	90.7	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 20



Analytical Results For:

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

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN

Sampling Date:

11/06/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.23	112	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	69.8-14	22						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	96.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.3	% 37.6-14	17						

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Celey Z. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 20



Analytical Results For:

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

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN

Sampling Date:

11/06/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

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

Cardinal Laboratories

*=Accredited Analyte

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Cellen Z. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 20



Analytical Results For:

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

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

11/06/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2,23	112	2.00	5,81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6,22	
Total BTEX	<0.300	0,300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	102 9	6 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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: I-Chlorooctane	102 9	6 41-142							
Surrogate: 1-Chlorooctadecane	94.0	% 37.6-14	7						

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Celent Keine

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

11/06/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.23	112	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	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	98.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	90.4	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

11/06/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.23	112	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.8	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	106 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	97.6	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number:

NONE GIVEN

Sampling Date:

11/07/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	< 0.050	0.050	11/13/2018	ND	2.23	112	2.00	5,81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	103 9	6 41-142							
Surrogate: 1-Chlorooctadecane	95.9	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

11/08/2018

Reported:

BTEX 8021B

11/14/2018

mg/kg

91.1 %

37.6-147

Project Name:

MILLMAN SB ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

11/07/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

DILX GUZID	11197	''9	raidifie	4 5 7 1 1 1 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2,23	112	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	69.8-14.	2						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	97.89	% 41-142							

Analyzed By: MS

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Surrogate: 1-Chlorooctadecane

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Analytical Results For:

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

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

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

11/07/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

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

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

11/08/2018

Reported:

11/14/2018

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

Project Number.

Project Location:

NOT GIVEN

Sampling Date:

11/07/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2018	ND	2.48	124	2.00	1.94	
Toluene*	<0.050	0.050	11/14/2018	ND	2.41	120	2.00	1.28	
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.35	118	2.00	2,21	
Total Xylenes*	<0.150	0.150	11/14/2018	ND	7.33	122	6.00	1.96	
Total BTEX	<0.300	0.300	11/14/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	98.8	% 41-142	,						
Surrogate: 1-Chlorooctadecane	83,2	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

11/07/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

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 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	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	99.5	% 41-142							
Surrogate: 1-Chlorooctadecane	85.0	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:

11/08/2018

Reported:

BTEX 8021B

11/14/2018

Project Name:

MILLMAN SB ST #2

mg/kg

Project Number: Project Location: NONE GIVEN

Sampling Date:

11/07/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

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

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	105 %	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	

ND

Analyzed By: ms

Surrogate: 1-Chlorooctane

EXT DRO >C28-C36

93.8 %

<10.0

41-142

11/10/2018

10.0

Surrogate: 1-Chlorooctadecane

78.5 %

37.6-147

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Celego Keens

Celey D. Keene, Lab Director/Quality Manager

Page 16 of 20



Analytical Results For:

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

Received:

11/08/2018

Reported:

11/14/2018

Project Name:

MILLMAN SB ST #2

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

sampling Date:

11/07/2018

Sampling Type: Sampling Condition: Soil

Sample Received By:

Cool & Intact

Jodi Henson

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

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2018	ND	2.48	124	2.00	1.94	
Toluene*	<0.050	0.050	11/14/2018	ND	2.41	120	2.00	1.28	
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.35	118	2.00	2.21	
Total Xylenes*	<0.150	0.150	11/14/2018	ND	7.33	122	6.00	1.96	
Total BTEX	<0.300	0.300	11/14/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	100 9	% 41-142							
Surrogate: 1-Chlorooctadecane	84.2	% 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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed welved 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, bissiness interruptions, loss of use, or loss of profits incurred by client, its subdishiers, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples Identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey T. Keene

Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg to Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Vanauage		BILL 70	ANALYSIS REQUEST
Project Manager:		P.O. #:	
Address: 4001 Lembrack St. S	Stu. 201	company: White Bullal	
city: Odesso State: TX	LX ZD: 19765	Attn: Steve TYPE Fortin	
Phone #: Fax #:		Address: 8908 Vale Ave #	
Project #: Project Owner:		city: Julia	
Project Name: Trilleman SB State	te+2	State: OK Zip: 74137	
Project Location:		Phone #: 918-660-0999	
Sampler Name: Morgani Custo		Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	do
Lab I.D. Sample I.D.	OR (C)OMF AINERS DWATER WATER	: ASE: DOL	lori
H8D324D	# CONT	OTHER ACIDIBI ICE / CO OTHER DATE	T CV
1 Sw1-2"	7		777
2 Sw2-2'	ם י	11-6-18 lo:14	777
3 Sw3-2	e L	h2:01 81-7-11	7 7
4 524-2	। ।	- 11-L-18 10:33	(
5 Sw5-2'	7	- 11-1-18 w:52	7 7 7
6 SW6-2'	l L	- II-L-18 II:07	400
7 Sw7-2'	1	- III-4-18 II:31	999
8 5 აგ - 2'	- P	11-6-18 12:42	477
9 الاسلام - 2'	ر ا	1 - 11-6-18 1:0+	4
10 Sw10-2'	G /	1 - 11-7-18 2:27	4 7 7
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising valether based in contract or fort, shall be limited to the amount paid by the client for the	ly claim arising whether based in contrac	ct or tert, shall be limited to the amount paid by the client to	7 156

3901 Date: Received By: Sample Condition
Cool Intact
Yes Yes
No No

Time:

Email Matalie. Gladden @ white buffalo.com Mongue. Cueto @ white buffalo.com ☐ Yes ☐ No Add'I Phone #:
☐ Yes ☐ No Add'I Fax #:

Cardinal ranget areant varial changes. Plaaca for written changes to 15751 301-2226

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

John Marie Vanducko		0177		ANALYSIS REQUEST
Project Manager:		P.O. 共		
Address: 4001 Panloxoak St. Ste	. 20	Company: White Bullal	<u></u>	
¥	Zip: 79762			
Fax#:		Address: 8908 Valle Avet	210	
Project #: Project Owner:		City: Julia		
Project Name: Willman 58 Stote #2	atu #2	State: OK Zip: 74/37		
Project Location:	20	Phone #: 9/8-660-0999		
Sampler Name: Morious Cueto	U	Fax #:	_	
	MATRIX	PRESERV SAMPLING		
(-	ERS ATER		erid EX H	
Handi.D. Sample I.D.	G)RAB OR CONTAIN ROUNDW /ASTEWA* OIL IL LUDGE	THER: CID/BASE CE / COOL THER:	Chli BT TP	
11 Swll-2'		- V /7/18 2	, , ,	
12 Sw12-2'	G 	~ whis 2:57	1 1	
15 Sw13-2'	<u>ि</u>	1 - 11/1/18 3:03	1 7 1	
14 Sw 14-2'	<u></u>	11/7/18 3:14	1 1	
15 5w15-2'	a I	11/1/18 3:35	シリノリ	
16 SP22-2'	6	~ II/1/18 3:42	1	
Damages. Cardinat's flability and client those for negligence and any other cardinal be fable for incidental or consequent of or related to the performance of	ny ciaim arising whether based in contra deemed wakod unless made in writing ar without furilation, business interruptions ardinal, recardless of whether such clair	or intri, tails to similer to the amount paid by the client for to not received by Cardinal within 10 days after completion of the kess of use, or base of profits incurred by dent, or subsidiarity is based upon any of the above stated reasons or otherwise.	for the of the applicable diaries, vice.	
Relinquished By:	Received By:		ult: □ Yes □ No	Add'l Phone #: Add'l Fax #:
oh: h	your you	REMARKS:	. Ø.	

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Sample Condition Cool Intact Pres Pres

Sampler-UPS - Bus - Other: -3.9c

Delivered By: (Circle One)

Time: Date:

Received By:

Email: Matalie. Gladden @ white buffalo.com Mengue. Cueto @ white buffalo.com

⁺ Cardinal rannot accept verbal channee Pleace fav written channee to IETEI 20122128



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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Project Manager:				P.O. #:				_					
Address:				Company: White	ite Bulled	0					5.	-	
City:	State:	Zip:		Attn: Stelle TYPFor	meration								
Phone #:	Fax #:			Address: 8900	8908 yole Ave	210			-	_			
Project #:	Project Owner:			city: Julia	,	_				_			
Project Name: MATI LMPAN	Ŋ	Т		State: OK Zip:	: 74137				_				
Project Location:				Phone #: 918-660-	640-0999	5							
Sampler Name: A	were and			Fax #:		e.	_						
FOR UAB USE ONLY		_	MATRIX	ESERV.	SAMPLING	7							
			ATER			OPI	SR	<u> </u>					
Lab I.D.	Sample I.D.	G)RAB OR (CONTAINE	ROUNDWA VASTEWAT FOIL DIL BLUDGE	OTHER : ACID/BASE: CE / COOL OTHER :	DATE TIME	CHZ	BIZ	TPH		1			
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B	2831-2	0		-			5	1				-	-
NEASE NOTE: Liability and Dam malyses. All claims including those enrice. In no event strail Cardinal	PLEASE NOTE: Liability and Damayes, Cardinal's liability and client's exchance entered, for any dama arring whether based in contract or tion, trace or amount power or completion of the applicable managers. All claims including mose for negligations and any other claims whatever with the deemed wavened unless under any wind and received by Cardinal which 30 days after completion of the applicable managers. In one eyest shall Cardinal be liable for incidental or consequential camages, including without firmitition, business interruptions, less of use, or less of profess incurred by client, its substitutions.	without to	arrang whether based in contra varved unless made in writing as initiation, business interruptions	or lot, shall be initiated to the discovered by Cardinal within loss of use, or loss of profits	30 days after completion of the a incurred by ciert, its subsidiaries	f the applications.	E						
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A A	Time: . 25	1	Bunara 1	May	REMARKS:	. V.				>	1 1	n. Jago	COM
Refinduished By:	Date:	Rec	Received By:		Zm	The work	stal	re.	Gladde		to to	all dilling	Matalie Gladen @ while hills cam
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Delivered By: (C	(Circle One)		Cool Intact	2	s)			•					
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Sample Condition
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Hes Hes

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Date:

Received By:

intal damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries

Phone Result:
Fax Result:
REMARKS:

☐ Yes ☐ No |Add'I Phone #:

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

Time:

CARDINAL

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: 1 And 1 And	The second secon	BILL TO	ANAL	ANALYSIS REQUEST
Project Manager:	P.O. #			
Address:	Company:	company: White Bullalo		
City: State:	Zip: Attn: Ste	Attn: Steve Typicarlin		
Phone #: Fax #:	Address:	STOR Valle Ave 7210		
Project #: Project Owner:	Owner: City: Ju	lso.		
ame: MATCH MARS A	State: OK	zip: 74/37		
	Phone #: 4	Phone #: 9/8-660-0999		
House in Com	Fax #:	سعر (
	MATRIX PRESERV	SAMPLING		
Lab I.D. Sample I.D.	G)RAB OR (C)OMP. CONTAINERS FROUNDWATER WASTEWATER OIL OIL SLUDGE OTHER: GCID/BASE: CCE / COOL	CHIOR	BIER	
3 SP32-2'	(11/2/18 11:43 V	7 /	
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\$ 35	6 7 7	11/5/18 6:55		
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t802	6 1	11/5/18/10:10	1	
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SP40	7	14/5/18 10:45	10	
5 00110	0	11/5/18 10:57	<u> </u>	

Sample Condition
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Tes 3 Yes
No No

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CHECKED BY: (Initials)

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Sampler - UPS - Bus - Other:

Relinquished By:

Date:

Received By:

Phone Result:
Fax Result:
REMARKS:

☐ Yes ☐ No | Add"! Phone #:

mark

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

Time:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

				-						
Company Name:	ANGULARA			B/I	B/LL TO				ANALYSIS REC	REQUEST
Project Manager:	3		9	P.O. #						
Address:			0	ompany: L	company: White Bu					
City:	State:	Zip:	Þ	in: Stel	Attn: Stelle TYPFor	₹ 5				
Phone #:	Fax #:		A	ddress: 8	Address: 8908 Valle	Ave# 210	0			
Project #:	Project Owner:		0	city: Julsa	Da,		-,-			
ame:	TRIES NO VE	μ	S	itate: OK	State: OK Zip: 74/37	37	7			
× 1	- 1		70	hone #: 9/	Phone #: 918-660-099	499	15			
	VANTEUR CUCTO		F	Fax #:			D			
7	- 1		MATRIX	PRESERV.	SAMPLING		21			
Lab I.D.	Sample I.D.	AB OR (C)OMI NTAINERS		/BASE: COOL			410	PH		
4803191			WAS SOIL OIL SLUE		DATE	TIME	10	7		
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Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

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Sample Condition
Cool Intact
GYes G-Yes
No No

CHECKED BY: (Initials)



BEFORE PHOTOS









DURING PHOTOS





















FINAL PHOTOS











