

Chuck Johnston

REMEDIATION PLAN

Millman SB State #2

API NO. 30-015-24756

2RP-4983

Release Date: 9/11/2018

Unit Letter J, Section 16, Township 19S, Range 28E

Eddy County, New Mexico

December 3, 2018

Prepared By:



White Buffalo Environmental, Inc.

407 East Broadway

Hobbs, NM 88240

Phone: (575)738-0424

Fax: (575)738-0430



December 3, 2018

Vanguard Natural Resources, Inc. C/O Chuck Johnston 4001 Penbrook, Suite 201 Odessa, TX 79761

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

RE: Remediation Work Plan Request Vanguard – Millman SB State #2 API No. 30-025-05430

Dear Maria,

Vanguard Energy has retained White Buffalo Environmental to address the environmental concern detailed herein.

The site is located in Eddy County, New Mexico. The incident occurred due to an offset frac on a nearby well, that caused the separator 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.

Ground Water Data

WBE has conducted an extended groundwater study of the area and it has been determined that according to the New Mexico Office of the Engineer, the vadose zone depth at this release location is averaged at 167'bgs. The closest wells to this site are as follows:

1,575 ft at a depth of 265'bgs 3,530 ft at a depth of 145'bgs 3,679 ft at a depth of 91'bgs 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 110'bgs. This site was delineated as to the new rule. The site ranking are as follows:

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 due to this being a spray release only. This release occurred on September 11, 2018. On the day of the release a local backhoe contractor went out to the site to back-drag the location so that frac tanks could be brought in and placed on the location pad. The contaminated soil was stockpiled on location.

On October 30, 2018, White Buffalo Environmental personnel – initiated delineation of the site as per the Condition of Approval (COA) received from the NMOCD. Surface soil samples were collected and field tested for chloride, BTEX and TPH. The site was fully delineated, horizontally and vertically to show migration of chloride contamination. Soil samples were taken from forty-seven (47) sample points, starting at surface and then taken in 2' intervals by use of track-hoe. Each sample was tested for chloride and hydrocarbons. All samples came in under the required closure criteria for this release. Please see the surface samples on the sample data sheet. Surface samples are listed below:

SP1: 421 mg/kg chloride, no detection of BTEX or TPH SP2: 322 mg/kg chloride, no detection of BTEX or TPH SP3: 92 mg/kg chloride, no detection of BTEX or TPH SP4: 1018 mg/kg chloride, no detection of BTEX or TPH SP5: 515 mg/kg chloride, no detection of BTEX or TPH SP6: 72 mg/kg chloride, no detection of BTEX or TPH SP7: 1341 mg/kg chloride, no detection of BTEX or TPH SP8: 211 mg/kg chloride, no detection of BTEX or TPH SP9: 48 mg/kg chloride, no detection of BTEX or TPH SP10: 55 mg/kg chloride, no detection of BTEX or TPH SP11: 38 mg/kg chloride, no detection of BTEX or TPH SP12: 58 mg/kg chloride, no detection of BTEX or TPH SP13: 38 mg/kg chloride, no detection of BTEX or TPH SP14: 36 mg/kg chloride, no detection of BTEX or TPH SP15: 54 mg/kg chloride, no detection of BTEX or TPH SP16: 14 mg/kg chloride, no detection of BTEX or TPH SP17: 28 mg/kg chloride, no detection of BTEX or TPH

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SP18: 34 mg/kg chloride, no detection of BTEX or TPH
SP19: 36 mg/kg chloride, no detection of BTEX or TPH
SP20: 48 mg/kg chloride, no detection of BTEX or TPH
SP21: 58 mg/kg chloride, no detection of BTEX or TPH
SP22: 60 mg/kg chloride, no detection of BTEX or TPH
SP23: 74 mg/kg chloride, no detection of BTEX or TPH
SP24: 42 mg/kg chloride, no detection of BTEX or TPH
SP25: 67 mg/kg chloride, no detection of BTEX or TPH
SP26: 46 mg/kg chloride, no detection of BTEX or TPH
SP27: 20 mg/kg chloride, no detection of BTEX or TPH
SP28: 64 mg/kg chloride, no detection of BTEX or TPH
SP29: 78 mg/kg chloride, no detection of BTEX or TPH
SP30: 38 mg/kg chloride, no detection of BTEX or TPH
SP31: 50 mg/kg chloride, no detection of BTEX or TPH
SP32: 32 mg/kg chloride, no detection of BTEX or TPH
SP33: 22 mg/kg chloride, no detection of BTEX or TPH
SP34: 36 mg/kg chloride, no detection of BTEX or TPH
SP35: 20 mg/kg chloride, no detection of BTEX or TPH
SP36: 12 mg/kg chloride, no detection of BTEX or TPH
SP37: 34 mg/kg chloride, no detection of BTEX or TPH
SP38: 24 mg/kg chloride, no detection of BTEX or TPH
SP39: 26 mg/kg chloride, no detection of BTEX or TPH
SP40: 68 mg/kg chloride, no detection of BTEX or TPH
SP41: 60 mg/kg chloride, no detection of BTEX or TPH
SP42: 34 mg/kg chloride, no detection of BTEX or TPH
SP43: 30 mg/kg chloride, no detection of BTEX or TPH
SP44: 30 mg/kg chloride, no detection of BTEX or TPH
SP45: 22 mg/kg chloride, no detection of BTEX or TPH
SP46: 30 mg/kg chloride, no detection of BTEX or TPH
SP47: 136 mg/kg chloride, no detection of BTEX or TPH
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At this time vertical sampling continued on each sample point to verify that the surface staining had not migrated. WBE obtained 2'bgs samples and also determined that the contamination was well under the required levels. These samples were all taken to Cardinal Lab for confirmation. Please see the sample data sheet attached to this report. The 2'bgs confirmed samples are listed below:

```
SP1: 2'bgs – 384 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SP2: 2'bgs – 320 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SP3: 2'bgs – 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SP4: 2'bgs – 768 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SP5: 2'bgs – 352 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SP6: 2'bgs – 48 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SP7: 2'bgs – 1140 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SP8: 2'bgs – 128 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SP9: 2'bgs – 16 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SP9: 2'bgs – 48 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SP10: 2'bgs – 48 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
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SP11: 2'bgs – 32 mg/kg chlorides, <0.300 mg/kg BTEX, 11.4 mg/kg TPH
SP12: 2'bgs – 48 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP13: 2'bgs – 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP14: 2'bgs - 32 mg/kg chlorides, <0.300 mg/kg BTEX, 12.9 mg/kg TPH
SP15: 2'bgs – 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP16: 2'bgs - <16 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP17: 2'bgs – 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP18: 2'bgs – 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP19: 2'bgs - 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP20: 2'bgs - 48 mg/kg chlorides, <0.300 mg/kg BTEX, 16.4 mg/kg TPH
SP21: 2'bgs – 48 mg/kg chlorides, <0.300 mg/kg BTEX, 51.3 mg/kg TPH
SP22: 2'bgs – 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP23: 2'bgs - 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP24: 2'bgs - 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP25: 2'bgs – 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP26: 2'bgs – 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP27: 2'bgs - 16 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP28: 2'bgs - 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP29: 2'bgs – 64 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP30: 2'bgs - 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP31: 2'bgs – 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP32: 2'bgs – 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP33: 2'bgs - 16 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP34: 2'bgs - 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP35: 2'bgs – <16 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP36: 2'bgs - <16 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP37: 2'bgs - 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP38: 2'bgs - <16 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP39: 2'bgs – 16 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP40: 2'bgs - 64 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP41: 2'bgs – 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP42: 2'bgs – 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP43: 2'bgs – 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP44: 2'bgs - 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP45: 2'bgs – 16 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP46: 2'bgs – 32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP47: 2'bgs – 144 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH
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The site was then fully delineated for horizontal extent. The horizontal delineation was sampled in 2' intervals until field samples indicated that we had reached the end of the horizontal investigation. SW1-SW15 were obtained and no contamination was found during the horizontal investigation. Please see the sample data sheet attached. The final sidewall samples were taken to Cardinal Lab and are listed below:

```
SW1: 2' - 16 mg/kg chlorides, < 0.300 mg/kg BTEX, < 10 mg/kg TPH SW2: 2' - 48 mg/kg chlorides, < 0.300 mg/kg BTEX, 426 mg/kg TPH SW3: 2' - 32 mg/kg chlorides, < 0.300 mg/kg BTEX, < 10 mg/kg TPH
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SW4: 2'-32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SW5: 2'-416 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SW6: 2'-416 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SW7: 2'-32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SW8: 2'-416 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SW9: 2'-32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SW10: 2'-32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SW11: 2'-16 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SW12: 2'-416 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SW13: 2'-416 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SW13: 2'-416 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SW14: 2'-32 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SW15: 2'-416 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH SW15: 2'-416 mg/kg chlorides, <0.300 mg/kg BTEX, <10 mg/kg TPH

Conclusion

With the delineation data, WBE suggest that only surface staining be remediated at this time. The stockpiled contaminated material that is currently on plastic will be hauled off to an approved disposal. The hydrocarbon sprayed mesquite will be removed and hauled off and both the location pad and pasture area will be back-dragged. The pasture area will be tilled and reseeded with BLM #3 seed for re-vegetation.

With a total of seven acres of sprayed surface, WBE would like to also use the delineation samples as closure samples. Thank you, for allowing White Buffalo Environmental to assist you in this matter. Please contact me with any questions and/or concerns.

Sincerely,

Natàlie Gladden

Environmental & Regulatory Director

White Buffalo Environmental

407 East Broadway

Hobbs, NM 88240

Office (575) 738-0424

Fax (575) 738-0430

Cell (575) 390-6397

Email: natalie.gladden@whitebuffalo.com

Attachments:

C-141 & COA Groundwater Data Sample Data and Remediation Site Map with Sample Points Lab Analyses Site Photos 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

Responsible Party Vanguard Operating, LLC						OGRID 258350					
Contact Nam	e Jason Fish	ner		Contact Telephone 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,								
Location of Release Source											
Latitude 32.658802 Longitude -104.1830902 (NAD 83 in decimal degrees to 5 decimal places)											
Site Name N	Aillman SB S	State #2		···	Site Type	Well Site					
Date Release	e Discovered	d 9-11-2018			API# 30-01	15-24756					
T 1 - 14 T - 44 - 11	C+:	T1.:	D	ı	C						
Unit Letter K	Section 16	Township 19S	Range 28E	Eddy	Count	<u>y</u>					
K	10	193	20E								
Surface Own		Federal 7	Nature an	ıd Vol	lume of l						
Crude Oil		Volume Release		ch calculat	tions or specific	instification for the volumes provided below) Volume Recovered (bbls) 0					
Produced Wa	ater	Volume Release	d (bbls)			Volume Recovered (bbls)					
<u> </u>		Is the concentrate produced water	ion of dissolved c >10,000 mg/l?	hloride	n the Yes No						
Condensa	te	Volume Release	d (bbls)		Volume Recovered (bbls)						
Natural G	as	Volume Release	d (Mcf)		Volume Recovered (Mcf)						
Other (de	scribe)	Volume/Weight	Released (provide	Volume/Weight Recovered (provide units)							
Cause of Release The well was hit by an offset frac causing the separator to overpressure and release through the relief valve. A large area was sprayed by oil on and off pad. The oil was estimated by calculating the displacement of the pipe string.											
B&B Backhoe began scraping and stockpiling the soil. TRC will begin sampling to delineate the area and prepare a work plan.											

State of New Mexico Oil Conservation Division

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 respondence of	nsible party consider this a major release?
	otice given to the OCD? By whom? To who Mike Bratcher by email 9-12-2018 5:04 p	nom? When and by what means (phone, email, etc)?
	Initial F	Response
The responsible	e party must undertake the following actions immediat	ely unless they could create a safety hazard that would result in injury
Released materials ha	s been secured to protect human health and	likes, absorbent pads, or other containment devices. I managed appropriately.
has begun, please attach a within a lined containment. I hereby certify that the informegulations all operators are public health or the environmentalled to adequately investigation.	a narrative of actions to date. If remedial at area (see 19.15.29.11(A)(5)(a) NMAC), promation given above is true and complete to the required to report and/or file certain release notionent. The acceptance of a C-141 report by the Cate and remediate contamination that pose a three	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred elease attach all information needed for closure evaluation. Dest of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger oCD 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 Signature:cjohnston@vr	Johnston	Title:EHS Operations Specialist Date:9-24-2018_ Telephone:432-202-4771
OCD Only Received by:	Me	Date: 09/26/18

Form C-141 Page 3

State of New Mexico Oil Conservation Division

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?						
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 vecontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	ertical 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 we Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information	ells.					
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.

Form C-141 Page 4

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application 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: Ottolic Galadden Date: 2/7/19									
email: _Natalie.Gladden@whitebuffalo.com_ Telephone:575-390-6397									
OCD Only									
Received by: Date:									

Form C-141 Page 5

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.									
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 									
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.									
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.									
Extents of contamination must be fully delineated.									
Contamination does not cause an imminent risk to human health, the environment, or groundwater.									
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.									
Printed Name: Natalie Gladden Title: Environmental and Regulatory Director									
Printed Name: Natalie Gladden Title: Environmental and Regulatory Director									
email: _natalie.gladden@whitebuffalo.com Telephone:575-390-6397									
OCD Only									
Received by: Date:									
Approved Approved with Attached Conditions of Approval Denied Deferral Approved									
Signature: Date:									

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

Subject: Millman SB State #2 C-141

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

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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

		POD													
		Sub-		Q	Q	Q								V	ater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDep	thWellDep	othWater Co	lumn
<u>CP 00361 POD1</u>		CP	ED	3	1	3	09	19S	28E	576094	3615246*	1575	365	265	100
<u>CP 00478 POD1</u>		CP	ED	1	1	4	05	19S	28E	575300	3617036*	3530	312	145	167
<u>CP 00502</u>		CP	ED		1	1	18	19S	28E	573001	3614478*	3679	100	91	9
<u>CP 00836 POD1</u>		CP	ED		1	1	18	19S	28E	573001	3614478*	3679	110		
<u>CP 00837 POD1</u>		CP	ED		1	1	18	19S	28E	573001	3614478*	3679	110		
<u>CP 00838 POD1</u>		CP	ED		1	1	18	19S	28E	573001	3614478*	3679	110		

Average Depth to Water:

167 feet

Minimum Depth:

91 feet

Maximum Depth:

265 feet

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 576609 **Northing (Y):** 3613757.25 **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, usability, or suitability for any particular purpose of the data.

10/12/18 3:21 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

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

 \mathbf{X}

CP 00478 POD1

1 4 05 19S 28E 575300 3617036*

Driller License: 406

Drill Start Date:

Driller Company:

TIDWELL, CLYDE J.

Driller Name:

CLYDE TIDWELL

7.00

12/12/1969

Drill Finish Date:

12/23/1969

Plug Date:

Shallow

Log File Date:

01/02/1970

PCW Rcv Date:

Depth Well:

11/01/1971

Source:

Pump Type: Casing Size:

SUBMER

Pipe Discharge Size:

312 feet

Depth Water:

Estimated Yield:

7 GPM

Water Bearing Stratifications:

Top Bottom Description

145 feet

150

160 Sandstone/Gravel/Conglomerate

200

Sandstone/Gravel/Conglomerate

Casing Perforations:

Top **Bottom**

140 262

*UTM location was derived from PLSS - see Help

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

10/12/18 3:28 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

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

Y

CP 00361 POD1

 \mathbf{X}

1 3 09 19S 28E

576094 3615246*

Driller License:

Driller Company:

04/19/1971

LOWE DRILLING CO.

Drill Finish Date:

05/13/1966

Plug Date:

Source:

Drill Start Date: Log File Date:

Driller Name:

05/25/1971

8.63

PCW Rcv Date:

Shallow

Pump Type:

Estimated Yield:

Casing Size:

Pipe Discharge Size:

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

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.

10/12/18 3:23 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help

VANGUARD - MILLMAN SB STATE #2

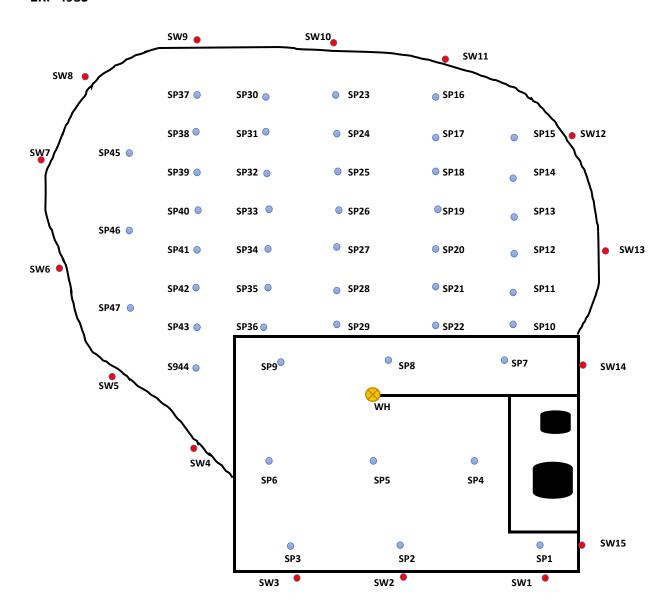
Sample ID	Ft	Field Chl	Titration	PID	Lab-Chl	Lab-BTEX	Lab-GRO	Lab-DRO	Lab-MRO	TPH	Soil	Notes
SP1	SUR	402	421	0								
	2'	372	394	0	384	<0.300	<10	<10	<10	<10	CAL	
SP2	SUR	316	322	0								
	2'	298	302	0	320	<0.300	<10	<10	<10	<10	CAL	
SP3	SUR	81	92	0								
	2'	68	70	0	32	<0.300	<10	<10	<10	<10	CAL	
SP4	SUR	1005	1018	0								
	2'	801	824	0	768	<0.300	<10	<10	<10	<10	CAL	
SP5	SUR	506	515	0								
	2'	375	384	0	352	<0.300	<10	<10	<10	<10	CAL	
SP6	SUR	60	72	0								
	2'	58	62	0	48	<0.300	<10	<10	<10	<10	CAL	
SP7	SUR	1325	1341	0								
	2'	1105	1128	0	1140	<0.300	<10	<10	<10	<10	CAL	
SP8	SUR	206	211	0								
	2'	135	139	0	128	<0.300	<10	<10	<10	<10	CAL	
SP9	SUR	41	48	0								
	2'	28	19	0	16	<0.300	<10	<10	<10	<10	CAL	
SP10	SUR	52	55	0								
	2'	50	44	0	48	<0.300	<10	<10	<10	<10	CAL	
SP11	SUR	42	38	0								
	2'	35	38	0	32	<0.300	<10	11.4	<10	11.4	CAL	
SP12	SUR	55	58	0								
	2'	52	50	0	48	<0.300	<10	<10	<10	<10	CAL	
SP13	SUR	36		0								
	2'	34	36	0	32	<0.300	<10	<10	<10	<10	CAL	
SP14	SUR	32	36	0								
	2'	28	26	0	32	<0.300	<10	12.9	<10	12.9	CAL	
SP15	SUR	50		0								
	2'	50	48	0	32	<0.300	<10	<10	<10	<10	CAL	
SP16	SUR	<30		0								
	2'	<30	12	0	<16	<0.300	<10	<10	<10	<10	CAL	

SP17	SUR	<30	28	0								
	2'	<30	28	0	32	<0.300	<10	<10	<10	<10	CAL	
SP18	SUR	<30	34	0								
	2'	<30	30	0	32	<0.300	<10	<10	<10	<10	CAL	
SP19	SUR	<30	36	0								
	2'	<30	28	0	32	<0.300	<10	<10	<10	<10	CAL	
SP20	SUR	<30	48	0								
	2'	<30	42	0	48	<0.300	<10	16.4	<10	16.4	CAL	
SP21	SUR	52	58	0								
	2'	45	46	0	48	<0.300	<10	51.3	<10	51.3	CAL	
SP22	SUR	58	60	0								
	2'	38	42	0	32	<0.300	<10	<10	<10	<10	CAL	
SP23	SUR	70	74	0								
	2'	34	28	0	32	<0.300	<10	<10	<10	<10	CAL	
SP24	SUR	40	42	0								
	2'	40	38	0	32	<0.300	<10	<10	<10	<10	CAL	
SP25	SUR	72	76	0								
	2'	44	38	0	32	<0.300	<10	<10	<10	<10	CAL	
SP26	SUR	42	46	0								
	2'	37	34	0	32	<0.300	<10	<10	<10	<10	CAL	
SP27	SUR	<30	20	0								
	2'	<30	18	0	16	<0.300	<10	<10	<10	<10	CAL	
SP28	SUR	60	64	0								
	2'	36	34	0	32	<0.300	<10	<10	<10	<10	CAL	
SP29	SUR	86	78	0								
	2'	72	68	0	64	<0.300	<10	<10	<10	<10	CAL	
SP30	SUR	42	38	0								
	2'	38	36	0	32	<0.300	<10	<10	<10	<10	CAL	
SP31	SUR	46	50	0								
	2'	42	38	0	32	<0.300	<10	<10	<10	<10	CAL	
SP32	SUR	34	32	0								
	2'	28	26	0	32	<0.300	<10	<10	<10	<10	CAL	
SP33	SUR	<30	22	0								
	2'	18	14	0	16	<0.300	<10	<10	<10	<10	CAL	

SP34	SUR	40	36	0								
	2'	38	36	0	32	<0.300	<10	<10	<10	<10	CAL	
SP35	SUR	<30	20	0								
	2'	<30	18	0	<16	<0.300	<10	<10	<10	<10	CAL	
SP36	SUR	<30	12	0								
	2'	<30	12	0	<16	<0.300	<10	<10	<10	<10	CAL	
SP37	SUR	30	34	0								
	2'	28	26	0	32	<0.300	<10	<10	<10	<10	CAL	
SP38	SUR	<30	24	0								
	2'	<30	20	0	<16	<0.300	<10	<10	<10	<10	CAL	
SP39	SUR	<30	26	0								
	2'	<30	26	0	16	<0.300	<10	<10	<10	<10	CAL	
SP40	SUR	70	68	0								
	2'	54	50	0	64	<0.300	<10	<10	<10	<10	CAL	
SP41	SUR	62	60	0								
	2'	<30	28	0	32	<0.300	<10	<10	<10	<10	CAL	
SP42	SUR	<30	34	0								
	2'	<30	28	0	32	<0.300	<10	<10	<10	<10	CAL	
SP43	SUR	<30	30	0								
	2'	<30	28	0	32	<0.300	<10	<10	<10	<10	CAL	
SP44	SUR	<30	30	0								
	2'	<30	28	0	32	<0.300	<10	<10	<10	<10	CAL	
SP45	SUR	<30	22	0								
	2'	<30	14	0	16	<0.300	<10	<10	<10	<10	CAL	
SP46	SUR	<30	30	0								
	2'	<30	28	0	32	<0.300	<10	<10	<10	<10	CAL	
SP47	SUR	140	136	0								
	2'	108	122	0	144	<0.300	<10	<10	<10	<10	CAL	
SW1	SUR	<30	18	0								
	2'	<30	12	0	16	<0.300	<10	<10	<10	<10	CAL	
SW2	SUR	50	46	0								
	2'	42	38	0	48	<0.300	<10	288	138	426	CAL	
SW3	SUR	<30	30	0								
	2'	<30	30	0	32	<0.300	<10	<10	<10	<10	CAL	

SW4	SUR	<30	28	0								
	2'	<30	26	0	32	<0.300	<10	<10	<10	<10	CAL	
SW5	SUR	<30	12	0								
	2'	<30	8	0	<16	<0.300	<10	<10	<10	<10	CAL	
SW6	SUR	52	50	0								
	2'	<30	20	0	<16	<0.300	<10	<10	<10	<10	CAL	
SW7	SUR	<30	30	0								
	2'	<30	30	0	32	<0.300	<10	<10	<10	<10	CAL	
SW8	SUR	<30	12	0								
	2'	<30	10	0	<16	<0.300	<10	<10	<10	<10	CAL	
SW9	SUR	<30		0								
	2'	<30		0	32	<0.300	<10	<10	<10	<10	CAL	
SW10	SUR	<30	28	0								
	2'	<30	28	0	32	<0.300	<10	<10	<10	<10	CAL	
SW11	SUR	<30		0								
	2'	<30		0	16	<0.300	<10	<10	<10	<10	CAL	
SW12	SUR	<30	14	0								
	2'	<30	12	0	<16	<0.300	<10	<10	<10	<10	CAL	
SW13	SUR	<30		0								
	2'	<30		0	<16	<0.300	<10	<10	<10	<10	CAL	
SW14	SUR	<30										
	2'	<30		0	32	<0.300	<10	<10	<10	<10	CAL	
SW15	SUR	<30		0								
	2'	<30	12	0	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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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: 10/31/2018 Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

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

BTEX 8021B	mg/	'kg	Analyze	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	% 41-142	•						
Surrogate: 1-Chlorooctadecane	81.4	% 37.6-14	7						

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

Received: 11/06/2018

Reported: Project Name: MILLMAN SB ST #2

Project Number: NONE GIVEN

Project Location: NOT GIVEN

Sampling Date: 10/31/2018 11/12/2018

Sampling Type: Soil Sampling Condition:

Cool & Intact Sample Received By: Tamara Oldaker

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

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

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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: 10/31/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

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

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	83.1	% 41-142	,						
Surrogate: 1-Chlorooctadecane	86.0	% 37.6-14	7						

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

Received: 11/06/2018 Sampling Date: 10/31/2018

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: me

Project Location: NOT GIVEN

ma/ka

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

RTFY 8021R

B1EX 8021B	mg/	/ kg	Anaiyze	a 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	94.1	% 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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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

10/31/2018

Sampling Type: Soil

Sampling Date:

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

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

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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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WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received: 11/06/2018 Sampling Date: 10/31/2018

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: **NOT GIVEN**

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

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	91.1	% 41-142	·						
Surrogate: 1-Chlorooctadecane	92.0	% 37 6-14	7						

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

Received: 11/06/2018 Sampling Date: 11/01/2018

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **NOT GIVEN**

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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11/01/2018



Analytical Results For:

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

Received: 11/06/2018 Sampling Date:

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

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

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	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	93.5	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	91.0	% 41-142							
Surrogate: 1-Chlorooctadecane	91.1	% 37.6-14	7						

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11/01/2018



Analytical Results For:

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

Received: 11/06/2018 Sampling Date:

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **NOT GIVEN**

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

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	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	95.5	% 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	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	93.1	% 41-142	·						
Surrogate: 1-Chlorooctadecane	92.1	% 37 6-14	7						

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11/01/2018

Soil



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 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Sampling Date:

Sampling Type:

Project Location: NOT GIVEN

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

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	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	94.9	% 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	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	92.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	92.4	% 37.6-14	7						

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

 Received:
 11/06/2018
 Sampling Date:
 11/01/2018

 Reported:
 11/12/2018
 Sampling Type:
 Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

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

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 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
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	11.4	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	95.2 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	96.5	% 37.6-14	7						

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

Received: 11/06/2018

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 12 - 2' (H803191-12)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	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	95.9	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	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	95.4	% 41-142	•						
Surrogate: 1-Chlorooctadecane	97.2	% 37.6-14	7						

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

Received: 11/06/2018 Sampling Date: 11/01/2018

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: SP 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 (PID	95.5	% 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	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	% 37.6-14	7						

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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 14 - 2' (H803191-14)

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 (PID	94.4	% 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	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	12.9	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	94.6	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	94.6	% 37.6-14	7						

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

Received: 11/06/2018 Sampling Date: 11/01/2018

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

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

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.6	% 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
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	94.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	94.8	% 37.6-14	7						

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

Received: 11/06/2018 Reported: 11/12/2018

11/12/2018 MILLMAN SB ST #2

Project Name: MILLMAN SB ST
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 16 - 2' (H803191-16)

BTEX 8021B	mg,	/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 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	11/09/2018	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	94.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	95.9	% 37.6-14	7						

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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 17 - 2' (H803191-17)

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	94.1	% 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	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	89.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.0	% 37.6-14	7						

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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 18 - 2' (H803191-18)

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	96.7	% 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	93.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	93.1	% 37 6-14	7						

93.1 % Surrogate: 1-Chlorooctadecane 37.6-147

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11/01/2018



Analytical Results For:

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

Received: 11/06/2018 Sampling Date:

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

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

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.2	% 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	11/09/2018	ND	400	100	400	0.00	QM-07
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	92.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	92.1	% 37.6-14	7						

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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 Name: MILLMAN SB ST
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 20 - 2' (H803191-20)

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 (PID	103	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	172	86.1	200	7.44	
DRO >C10-C28*	16.4	10.0	11/09/2018	ND	197	98.3	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					
Surrogate: 1-Chlorooctane	89.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	86.8	% 37.6-14	7						

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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 21 - 2' (H803191-21)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/08/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/08/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	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	48.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	172	86.1	200	7.44	
DRO >C10-C28*	51.3	10.0	11/09/2018	ND	197	98.3	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					
Surrogate: 1-Chlorooctane	95.3	% 41-142	•						
Surrogate: 1-Chlorooctadecane	95.4	% 37.6-14	7						

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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: 11/02/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

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

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/08/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/08/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 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	11/09/2018	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	96.1	% 41-142	1						
Surrogate: 1-Chlorooctadecane	85.8	% 37.6-14	7						

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

Received: 11/06/2018 Reported: 11/12/2018

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

Project Location: NOT GIVEN

Sampling Date: 11/02/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: 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 (PID	104	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	99.3	% 41-142	•						
Surrogate: 1-Chlorooctadecane	85.2	% 37.6-14	7						

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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: 11/02/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

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

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/08/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/08/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.8-14	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	90.6	% 41-142	,						
Surrogate: 1-Chlorooctadecane	76.8	% 37.6-14	7						

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11/02/2018



Analytical Results For:

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

Received: 11/06/2018

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Sampling Date:

Project Location: NOT GIVEN

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	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/08/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.8-14	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	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	107	% 41-142	?						
Surrogate: 1-Chlorooctadecane	92.1	% 37.6-14	7						

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11/02/2018

Soil



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 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Sampling Date:

Sampling Type:

Project Location: NOT GIVEN

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

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/08/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/08/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed 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	93.8	% 37.6-14	7						

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

Received: 11/06/2018 Reported:

11/12/2018 Project Name: MILLMAN SB ST #2 Project Number: NONE GIVEN

Project Location: NOT GIVEN Sampling Date: 11/02/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

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

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.8-14	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	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	106	% 41-142	?						
Surrogate: 1-Chlorooctadecane	95.0	% 37.6-14	7						

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

Received: 11/06/2018 Sampling Date: 11/02/2018

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NOT GIVEN

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

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	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	64.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	105 %	6 41-142	!						
Surrogate: 1-Chlorooctadecane	93.8 9	37.6-14	7						

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

Received: 11/06/2018 Sampling Date: 11/02/2018

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NOT GIVEN

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

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	113 %	6 41-142	<u> </u>						
Surrogate: 1-Chlorooctadecane	99 5	% 37 6-14	7						

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11/02/2018



Analytical Results For:

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

Received: 11/06/2018 Sampling Date:

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: NOT GIVEN

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	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	103	% 41-142)						
Surrogate: 1-Chlorooctadecane	93.4	% 37.6-14	7						

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

Received: 11/06/2018 Sampling Date: 11/02/2018

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: NOT GIVEN

ma/ka

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

RTFY 8021R

B1EX 8021B	mg/	кg	Anaiyze	а ву: мѕ					
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 9	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	104 9	% 41-142							
Surrogate: 1-Chlorooctadecane	93.9	% 37.6-14	7						

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

Received: 11/06/2018 Sampling Date: 11/02/2018

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

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

BTEX 8021B	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	16.0	16.0	11/09/2018	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	180	90.2	200	0.470	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	206	103	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					
Surrogate: 1-Chlorooctane	96.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	86.9	% 37.6-14	7						

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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 34 - 2' (H803191-33)

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

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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 35 - 2' (H803191-34)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed 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	ed 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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WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received: 11/06/2018 Reported: 11/12/2018

11/12/2018 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 36 - 2' (H803191-35)

Project Name:

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.8-14	12						
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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WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received: 11/06/2018 Sampling Date: 11/05/2018

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

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

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

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

Received: 11/06/2018 Reported: 11/12/2018

11/12/2018 MILLMAN SB ST #2

Project Name: MILLMAN SB S
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 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 (PID	103	% 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	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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WHITE BUFFALO NATALIE GLADDEN 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received: 11/06/2018 Sampling Date: 11/05/2018

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

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

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.91	95.4	2.00	0.126	
Toluene*	<0.050	0.050	11/09/2018	ND	1.87	93.3	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.82	91.2	2.00	0.584	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.51	91.8	6.00	0.251	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	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	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	172	86.1	200	7.44	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	197	98.3	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					
Surrogate: 1-Chlorooctane	85.8 9	% 41-142							
Surrogate: 1-Chlorooctadecane	82.5 9	% 37.6-14	7						

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

Received: 11/06/2018 Sampling Date: 11/05/2018

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

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

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

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11/05/2018

Soil



Analytical Results For:

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

Received: 11/06/2018 Sampling Date:
Reported: 11/12/2018 Sampling Type:

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

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

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.63	81.5	2.00	2.61	
Toluene*	<0.050	0.050	11/09/2018	ND	1.76	88.1	2.00	1.24	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.84	92.2	2.00	0.505	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.56	92.7	6.00	0.118	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	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	89.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	85.2	% 37.6-14	7						

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

Received: 11/06/2018 Sampling Date: 11/05/2018

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

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 (PID	101	% 69.8-14	22						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed 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	ed 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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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 Name: MILLMAN SB ST #
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 43 - 2' (H803191-42)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.63	81.5	2.00	2.61	
Toluene*	<0.050	0.050	11/09/2018	ND	1.76	88.1	2.00	1.24	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.84	92.2	2.00	0.505	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.56	92.7	6.00	0.118	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 5	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	416	104	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	172	86.1	200	7.44	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	197	98.3	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					
Surrogate: 1-Chlorooctane	84.2	% 41-142							
Surrogate: 1-Chlorooctadecane	82.1	% 37.6-14	7						

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11/05/2018



Analytical Results For:

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

Received: 11/06/2018

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Sampling Date:

Project Location: NOT GIVEN

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

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.63	81.5	2.00	2.61	
Toluene*	<0.050	0.050	11/09/2018	ND	1.76	88.1	2.00	1.24	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.84	92.2	2.00	0.505	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.56	92.7	6.00	0.118	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	172	86.1	200	7.44	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	197	98.3	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					
Surrogate: 1-Chlorooctane	83.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	80.5	% 37.6-14	7						

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

Received: 11/06/2018 Sampling Date: 11/05/2018

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: SP 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 (PID	101	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/09/2018	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	172	86.1	200	7.44	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	197	98.3	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					
Surrogate: 1-Chlorooctane	83.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	81.2	% 37.6-14	7						

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

Received: 11/06/2018 Sampling Date: 11/05/2018

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NOT GIVEN

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

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2018	ND	1.63	81.5	2.00	2.61	
Toluene*	<0.050	0.050	11/09/2018	ND	1.76	88.1	2.00	1.24	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.84	92.2	2.00	0.505	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.56	92.7	6.00	0.118	
Total BTEX	<0.300	0.300	11/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2018	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	172	86.1	200	7.44	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	197	98.3	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					
Surrogate: 1-Chlorooctane	84.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	82.4	% 37.6-14	7						

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

Received: 11/06/2018 Sampling Date: 11/05/2018

Reported: 11/12/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

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

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 (PID	102	% 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	144	16.0	11/09/2018	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	172	86.1	200	7.44	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	197	98.3	200	8.45	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					
Surrogate: 1-Chlorooctane	80.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	76.0	% 37.6-14	7						

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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

ecovery.

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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Company Name:	ANGUARD			1111	BILL 10	and	-	+	ANALISIS NEGOLOI	
Project Manager:				P.O. #:		_				
Address:				Company: White	hite Bullad	6				
City:	State: 2	Zip:		Attn: Steve TYPFor	McFarly	1				
Phone #:	Fax #:			Address: 89	8908 yale Ave	210				
Project #:	Project Owner:			city: July	2,					
ame:	MANUER OF ST. P.			State: OK Z	Zip: 14/51	_				
				Phone #: 9/	Phone #: 918-660-0999	5				
Sampler Name: A	Company Contro			Fax #:		\(\frac{1}{2}\)				
FOR LAB USE ONLY		·.	MATRIX	PRESERV.	SAMPLING	1 6 E				
Lab I.D.	Sample I.D.	G)RAB OR (C)OM CONTAINERS	ROUNDWATER WASTEWATER FOIL DIL GLUDGE	OTHER: ACID/BASE: CE / COOL OTHER:	DATE TIME	CHOR	Brex	TPH		
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7	'n	0	\	1	1	4	<	1		
7	502 /2	5	1	<	10/31/18 8:43	1	5			
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ا ا	509-0	2		. <	11/1/18 9:29	2	1	1		
5	5010-01	2	(<	11118 6:45	<	<	5		
PLEASE NOTE: Liability and	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be arrated within 0 above and on the contract or fort, shall be arrated and the contract of the contract	y claim aris	sing whether based in contrac	t or tort, snall be limited to received by Cardinal w	shall be limited to trie amount paid by the client for the applicable and by Cardinal within 30 days after completion of the applicable	n of the applica	able			

Cool Intact

- Yes - Yes
- No - No Sample Condition

> CHECKED BY: (Initials)

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Relinquished By:

Date:

Received By:

Phone Result: | Yes | No | Add'l Phone #:

Fax Result: | Yes | No | Add'l Fax #:

REMARKS:

Limin Watalie Gladden @ white buffalo com

Morique Cueto @ white buffalo com

amara

)afe: 6-18

eunder by Cardinal, regardless of whether such
Received By:

Time:

Relinquish

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whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable

tions, loss of use, or loss of profits incurred by client, its subsidiaries,

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State: Zip: State: Zip: Fax #: Project Owner: ADUMAN SB ST. 2 MONDANC CHUTO	P.O. #: Company: "White Buy Attn: Shevie McFor Address: 8908 Yele / City: Julio State: OK Zip: 7413 Phone #: 918-660-0 Fax #: PRESERVI SAMPLING	7997 1200
State: Zip: Fax#: Project Owner: MAN SB ST. 2 PRANC CHETO		1799 Treate
State: Zip: Fax #: Project Owner: LDUMAN SB ST . 2 Momball Chiero		799
State: Zip: Fax #: Project Owner: ADUMAN SB ST. 2 MOMBALE CHETO		199 199
Fax#: Project Owner: LOUMAN SB ST. 2 Mourance Cherry	Address: 890 City: Julio State: OK Zi Phone #: 9/8 Fax #: IPRESERV	37 Ne 2
Project Owner: ADUMAN 5B ST. 2 MONBALE CHETO	State: OK Zij Phone #: 9/8 Fax #: IPRESERVI	37
KOWBALL CHETE	State: OK Zij Phone #: 9/8 Fax #: PRESERV	37
Morpout Cuero	Phone #: 9/8 Fax #:	0999
Morpaus Chero	Fax #:	
100	PRESERV	
Sample I.D. (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER	SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	BIED BIED
801-12	1811111 /	10,50
12 SOLD 21 0	1 1/1/18	0:54
13 SP13-2" G		11:11
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5019-21		2:00
30 Span-2 6	V V V V V V V V V V V V V V V V V V V	2::

Relinquished By analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 20 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, Relinquished By: service. In no event shall Cardinal be liable for incidental or cons-Delivered By: (Circle One) Time:-,2S Time: Received By: Received By: Sample Condition CHECKED BY:

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim

Phone Result: | Yes | No | Add'l Phone #:
Phone Result: | Yes | No | Add'l Fax #:
Fax Result: | Yes | No | Add'l Fax #:
REMARKS:
REMARKS:

No | Add'l Fax #:
REMARKS:
REMARKS:

No | Add'l Fax #:
REMARKS:
REMARKS:

No | Add'l Fax #:
REMARKS:
REMARK

1.70

Cool Intact
HYES HYES
No No

(Initials)

Sampler - UPS - Bus - Other:



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	promise process of the second contract of the	
Company Name: VANGULE)	BILLIO	ANALISIS NEGOCO
Project Manager:	P.O. #:	
Address:	Company: White Bullalo	
City: State: Zip:	Attn: Steve TYPe For In	
Phone #: Fax #:	Address: 8908 yale Ave 20	
Project #: Project Owner:	city: Julia	
Project Name: Who was No So So	State: OK Zip: 74/37	
Project Location:	Phone #: 918-610-0999	
Sampler Name: Morrane Carro		
	MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D.	R: ASE: OOL	PH
# CO	OTH DATE	7
21 5021-21		
37 3823-01 4	V 112/18 4/20 V	
33 SP24-2' G	1/8	
24 SP35-2' 6	J 11/1/18/10:05	
25 SPOW-2" G	~ 11/2/18/0:28 v	
16 - LEBS 16	J 1/2/18/10/22	
37 5008-01 6	1 (S.0) SIMIN ~	
27 SPAG-21 G	1 10:11 8/2/11	
30-30-2° G		
30 Se31-21 01	1 1/1/5 1/2 Sy	
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive emedy for any claim arising whether besset in contact unit, state a mine of the property of th	nal's liability and client's exclusive remedy for any claim ansing whemer based in contract or but, share be allowed under the spoke of the applicable ones and any other raises whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	licable

1.7°

Cool Intact
Hyes Hyes
No No Sample Condition

> 9 (Initials)

CHECKED BY:

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

service. In no event shall Cardinal be liable for incidental or consc

Retinquished By:

Date:

Received By:

Fax Result: "Yes "No |Add'I Fax #:

REMARKS:

Lynaid:

Matalie Gladden @ white buffalo.com

Monique, Cueto @ white buffalo.com

Time:

analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable

Received By:

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

Phone Result:

☐ Yes ☐ No Add'I Phone #:
☐ Yes ☐ No Add'I Fax #:

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

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Company Name: VANGUARD	o grando de la companio del companio de la companio del companio de la companio della companio de la companio della companio d	BILLIO	ANALISIS REGUEST	_
Project Manager:	P.	P.O. #:		
Address:	Co	Company: White Bullale		
State:	Zip: At	Attn: Steve McForlin		
Phone #: Fax #:	Ac	Address: 8908 yale Avet	200	Active and the second
Project #: Project Owner:	Ci	city: Julsa		
Project Name: MINAN 85 On	St	State: OK Zip: 74/37		-
n:	PI	Phone #: 9/8-660-0999	5	
Sampler Name: Mouse (were	Fa	Fax #:	De	-
	MATRIX	PRESERV. SAMPLING		-
Lab I.D. Sample I.D.	G)RAB OR (C)OMP CONTAINERS GROUNDWATER VASTEWATER GOIL DIL GLUDGE DTHER:	ACID/BASE: CE / COOL DTHER: DATE	CHIOR	
SP32-2"	-	11/2/18 11:43		
SP 33	3	1 11/18 12:07		
33 SP 34-21	5	1 W5/18 9:40		
	5	11/5/18 9:55		
,	5	11/5/18/10:03		
121	7	J 11/5/18 10:10		
30 Sp38-2"	~	11/5/18 10:23		
5039-2	7	V (1/5/18 10:36		
39 SP40-2'	2	-		
45 5041-21	6	25:01 81/5/11 /		
PLEASE NOTE: Liability and Damages. Cardinat's liability and client's exclusive remote/ for any client arising whether based in contract or tort, shall be innect to are arround you are used under the place of the	y claim arising whether based in contract or i	lether based in contract or tort, shall be limited to the amount paid by the client for the applicable less made in writing and received by Cardinal within 30 days after completion of the applicable	e applicable	

Sample Condition
Cool Intact
Tyes Yes
No No

CHECKED BY: (Initials)

Sampler - UPS - Bus - Other: Delivered By: (Circle One) analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

service. In no event shall Cardinal be liable for incidental or cons

Relinquished By:

Relinduished By:

Date:

Received By:

Fax Result:
REMARKS:

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

Phone Result:

☐ Yes ☐ No Add'l Phone #:
☐ Yes ☐ No Add'l Fax #:

Date: 6-18

Time:

⁺ Cardinal cannot accent workel channee Dleace for written channee to IETE 202-2226



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

		Company of the last section of the last sectio	STREET, STREET			
Company Name: VANGUARI		The state of the s			ANALISIS NEGOESI	1
Project Manager:		P.O. #:				
Address:		Company: White	te Bullado			
City: State:	Zip:	Attn: Steve TYPE For	3			
Phone #: Fax #:		Address: 8908 Valle	Avet	210		
Project #: Project Owner:		city: Julia				
Project Name: 2012	P	State: OK Zip:	74137	<u>ک</u>		
on:		Phone #: 918-660-0999	10-0999	15		
Sampler Name: Wanthur Cucho		Fax #:		2		
FOR LAB USE ONLY	MATRIX	PRESERV. SA	SAMPLING	21		
Lab I.D. Sample I.D.	(G)RAB OR (C)OMI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME	BIER TPH		
y SPA-R	_	81/2/11	18/11:03	1		
12 SP43-21	2	V 11/5	11/5/18 11:12	1		
43 SPH4-2'	~	3/11	11/5/18/11/20	1		
18-Shot	5	X 275	115/18 11:34	9		
to assert	2	7 11/5	1518 11:49	1		
10 2047-01	0	J 11/5/18	18 12:05	7		
	8					
75						
	25	of or fort chall be limited to the am	bount paid by the client for the	he		
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remote for any claim arising whether based in contract or tori, stram be surrour to we arise to use any one pure to the participant of the par	any claim arising whether based in contract the contract trace in contract traces made in writing are	whether based in contract or tort, snall be littlied to the arrount part by the culture to the applicable incless made in writing and received by Cardinal within 30 days after completion of the applicable	days after completion of the	applicable		

1.7°

Cool Intact

Ayes Ayes

No No Sample Condition

> CHECKED BY: (Initials)

Sampler - UPS - Bus - Other: Delivered By: (Circle One) service. In no event shall Cardinal be liable for incidental or cons

Relinquished By

Relinquished By:

Date:

Received By:

Fax Result:
REMARKS:
Limail:

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

Phone Result:

☐ Yes ☐ No Add'l Phone #:
☐ Yes ☐ No Add'l Fax #:

Date: 18

Time:

analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be fable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by clent, its subsidiaries,



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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received: 11/08/2018 Reported: 11/14/2018

11/14/2018 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 1 - 2' (H803240-01)

Project Name:

Project Number:

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	< 0.050	0.050	11/13/2018	ND	2.23	112	2.00	5.81	
Total Xylenes*	< 0.150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.8-14	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	102	% 41-142	?						
Surrogate: 1-Chlorooctadecane	91.1	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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

Received: 11/08/2018 Reported: 11/14/2018

 11/08/2018
 Sampling Date:
 11/06/2018

 11/14/2018
 Sampling Type:
 Soil

Project Name: MILLMAN SB ST #2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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, 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	11/14/2018	ND	432	108	400	3.64	

mg/	kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
48.0	16.0	11/14/2018	ND	432	108	400	3.64	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
288	10.0	11/10/2018	ND	195	97.3	200	0.466	
138	10.0	11/10/2018	ND					
	Result 48.0 mg/ Result <10.0 288	48.0 16.0 mg/kg Result Reporting Limit < 10.0 10.0 288 10.0	Result Reporting Limit Analyzed 48.0 16.0 11/14/2018 mg/kg Analyzed Result Reporting Limit Analyzed <10.0 10.0 11/10/2018 288 10.0 11/10/2018	Result Reporting Limit Analyzed Method Blank 48.0 16.0 11/14/2018 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0 10.0 11/10/2018 ND 288 10.0 11/10/2018 ND	Result Reporting Limit Analyzed Method Blank BS 48.0 16.0 11/14/2018 ND 432 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0 10.0 11/10/2018 ND 190 288 10.0 11/10/2018 ND 195	Result Reporting Limit Analyzed Method Blank BS % Recovery 48.0 16.0 11/14/2018 ND 432 108 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0 10.0 11/10/2018 ND 190 95.1 288 10.0 11/10/2018 ND 195 97.3	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 48.0 16.0 11/14/2018 ND 432 108 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 48.0 16.0 11/14/2018 ND 432 108 400 3.64 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0 10.0 11/10/2018 ND 190 95.1 200 0.608 288 10.0 11/10/2018 ND 195 97.3 200 0.466

Surrogate: 1-Chlorooctane 96.1 % 41-142 Surrogate: 1-Chlorooctadecane 99.5 % 37.6-147

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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: 11/06/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

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

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

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

Received: 11/08/2018 Reported: 11/14/2018

11/14/2018 MILLMAN SB ST #2

Project Name: MILLMAN SB ST #
Project Number: 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 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	% 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	1						
Surrogate: 1-Chlorooctadecane	90.7	% 37.6-14	7						

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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: 11/06/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

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

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.23	112	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.8-14	12						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	96.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.3	% 37.6-14	7						

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

Received: 11/08/2018

Sampling Date:

11/06/2018

Reported: Project Name: 11/14/2018

Sampling Type: Soil

Project Name: Project Number: MILLMAN SB ST #2 NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Location:

NOT GIVEN

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 (PID	101	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	102	% 41-142	•						
Surrogate: 1-Chlorooctadecane	95.2	% 37.6-14	7						

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

Received: 11/08/2018 Reported: 11/14/2018

11/14/2018

Project Name: MILLMAN SB ST #2
Project Number: 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 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 (PID	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	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	102	% 41-142							
Surrogate: 1-Chlorooctadecane	94.0	% 37.6-14	7						

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

Received: 11/08/2018 Reported: 11/14/2018

11/14/2018 MILLMAN SB ST #2

Project Number: 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 8 - 2' (H803240-08)

Project Name:

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

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

Received: 11/08/2018 Reported: 11/14/2018

11/14/2018 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 9 - 2' (H803240-09)

Project Name:

Project Number:

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	% 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	106	% 41-142)						
Surrogate: 1-Chlorooctadecane	97.6	% 37.6-14	7						

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

Received: 11/08/2018 Reported: 11/14/2018

11/08/2018 Sampling Date: 11/14/2018 Sampling Type:

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

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

11/07/2018

Soil

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	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	103	% 41-142	•						
Surrogate: 1-Chlorooctadecane	95.9	% 37.6-14	7						

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

Received: 11/08/2018 Reported: 11/14/2018

11/14/2018

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

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, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/14/2018	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	97.8	% 41-142	•						
Surrogate: 1-Chlorooctadecane	91.1	% 37.6-14	7						

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11/07/2018

Soil



Analytical Results For:

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

Received: 11/08/2018 Reported: 11/14/2018

 11/08/2018
 Sampling Date:

 11/14/2018
 Sampling Type:

Project Name:MILLMAN SB ST #2Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi HensonProject Location:NOT GIVEN

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 (PID	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	92.7	% 41-142	!						

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Celey D. Keine

Surrogate: 1-Chlorooctadecane

79.9 %

37.6-147



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

Received: 11/08/2018

Sampling Date:

11/07/2018

Reported: Project Name: 11/14/2018

Sampling Type:

Soil Cool & Intact

Project Name: Project Number: MILLMAN SB ST #2

Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN NOT GIVEN

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

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2018	ND	2.48	124	2.00	1.94	
Toluene*	<0.050	0.050	11/14/2018	ND	2.41	120	2.00	1.28	
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.35	118	2.00	2.21	
Total Xylenes*	<0.150	0.150	11/14/2018	ND	7.33	122	6.00	1.96	
Total BTEX	<0.300	0.300	11/14/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/14/2018	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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11/07/2018



Analytical Results For:

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

Received: 11/08/2018 Sampling Date:

Reported: 11/14/2018 Sampling Type: Soil

Project Name: MILLMAN SB ST #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

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

covery True Value QC RPD Qualifier
24 2.00 1.94
2.00 1.28
2.00 2.21
22 6.00 1.96
covery True Value QC RPD Qualifier
08 400 3.64
covery True Value QC RPD Qualifier
.1 200 0.608
.3 200 0.466

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

Received: 11/08/2018 Reported: 11/14/2018 Sampling Date:

Sampling Type: Soil

Project Name: Project Number:

MILLMAN SB ST #2 NONE GIVEN

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

11/07/2018

Project Location: **NOT GIVEN**

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

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2018	ND	2.48	124	2.00	1.94	
Toluene*	<0.050	0.050	11/14/2018	ND	2.41	120	2.00	1.28	
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.35	118	2.00	2.21	
Total Xylenes*	<0.150	0.150	11/14/2018	ND	7.33	122	6.00	1.96	
Total BTEX	<0.300	0.300	11/14/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	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	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	93.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	78.5	% 37 6-14	7						

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

Received: 11/08/2018 Reported: 11/14/2018

11/08/2018 Sampling Date: 11/14/2018 Sampling Type:

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

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

11/07/2018

Soil

Project Location: NOT GIVEN

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

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	11/14/2018	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 (PI	D 106	% 69.8-14	12						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed 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	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2018	ND	190	95.1	200	0.608	
DRO >C10-C28*	<10.0	10.0	11/10/2018	ND	195	97.3	200	0.466	
EXT DRO >C28-C36	<10.0	10.0	11/10/2018	ND					
Surrogate: 1-Chlorooctane	100	% 41-142	?						
Surrogate: 1-Chlorooctadecane	84.2	% 37.6-14	17						
Ü									

Cardinal Laboratories *=Accredited Analyte

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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VANGUARD MILLMAN SB STATE #2 BEFORE PHOTOS









































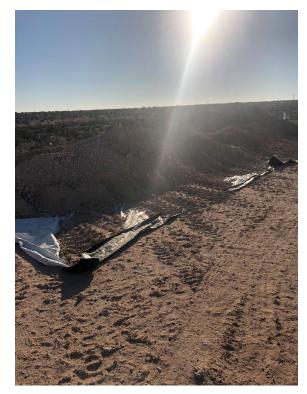






















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