



July 17, 2019

Mike Bratcher
NMOCD District 2
811 South First Street
Artesia, NM 88210

Jim Amos
Bureau of Land Management, CFO
620 E. Green Street
Carlsbad, NM 88220

Closure Report
Windmill 32 Federal Com #004H
API#: 30-015-41286
RP#: 2RP-5133
DOR: December 7, 2018
GPS: 32.69837, -104.29269
Unit Letter P, Section 32, Township 18 South, Range 27 East
Eddy County, New Mexico

To Whom It May Concern,

COG Operating, LLC (COG) is pleased to submit the following closure report in response to a release that occurred at the Windmill 32 Federal Com #004H.

BACKGROUND

The release was discovered on December 7, 2018 and a C-141 initial report was submitted to the New Mexico Oil Conservation Division (NMOCD) and the Bureau of Land Management (BLM). A hole developed in a 2" tee on the wellhead and resulted in the release of approximately ten (10) barrels (bbls) of oil and fifty-four (54) bbls of produced water.

GROUNDWATER AND REGULATORY FRAMEWORK

According to the New Mexico Office of the State Engineer (NMOSE) the nearest active water well (CP-05664) is located approximately 0.7 miles northeast of the release point and indicates that groundwater in the project vicinity is approximately one-hundred and forty-five (145) feet below ground surface (BGS). The water well information is shown in Appendix B.

A risk based evaluation and site determinations were performed in accordance to the New Mexico Oil Conservation Division (NMOCD) Rule (Title 19 Chapter 15 Part 29) for releases on oil and gas development and production in New Mexico (effective August 14, 2018). According to the site

characterization evaluation, the release occurred in a high karst occurrence area. No other receptors (water wells, playas, water course, lake beds or ordinance boundaries) were located within each specific boundaries or distance from the site. The groundwater data and the site characterization evaluation data is summarized in Appendix B. The delineation and closure criteria are listed below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft.)
High Karst Area	>100 feet

Delineation and Closure Criteria:

Recommended Remedial Action Levels (RRALs)	
Chlorides	600 mg/kg
TPH (GRO and DRO and MRO)	100 mg/kg
TPH (GRO and DRO)	100 mg/kg
Benzene	10 mg/kg
Total BTEX	50 mg/kg

REMEDIAL ACTIONS

- The impacted area was excavated to depths from one (1) to four (4) feet BGS.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- Confirmation soil samples were taken from the excavation per the NMOCD approved alternate sampling plan.
- The site was backfilled with caliche and contoured to match the surrounding location.

SITE RECLAMATION AND RESTORATION

All of the fluid remained on the well pad. No reclamation activities will be required at this site.

CLOSURE REQUEST

COG Operating, LLC respectfully requests that the New Mexico Oil Conservation Division and the Bureau of Land Management grant closure approval for the Windmill 32 Federal Com #004H incident that occurred on December 7, 2018.

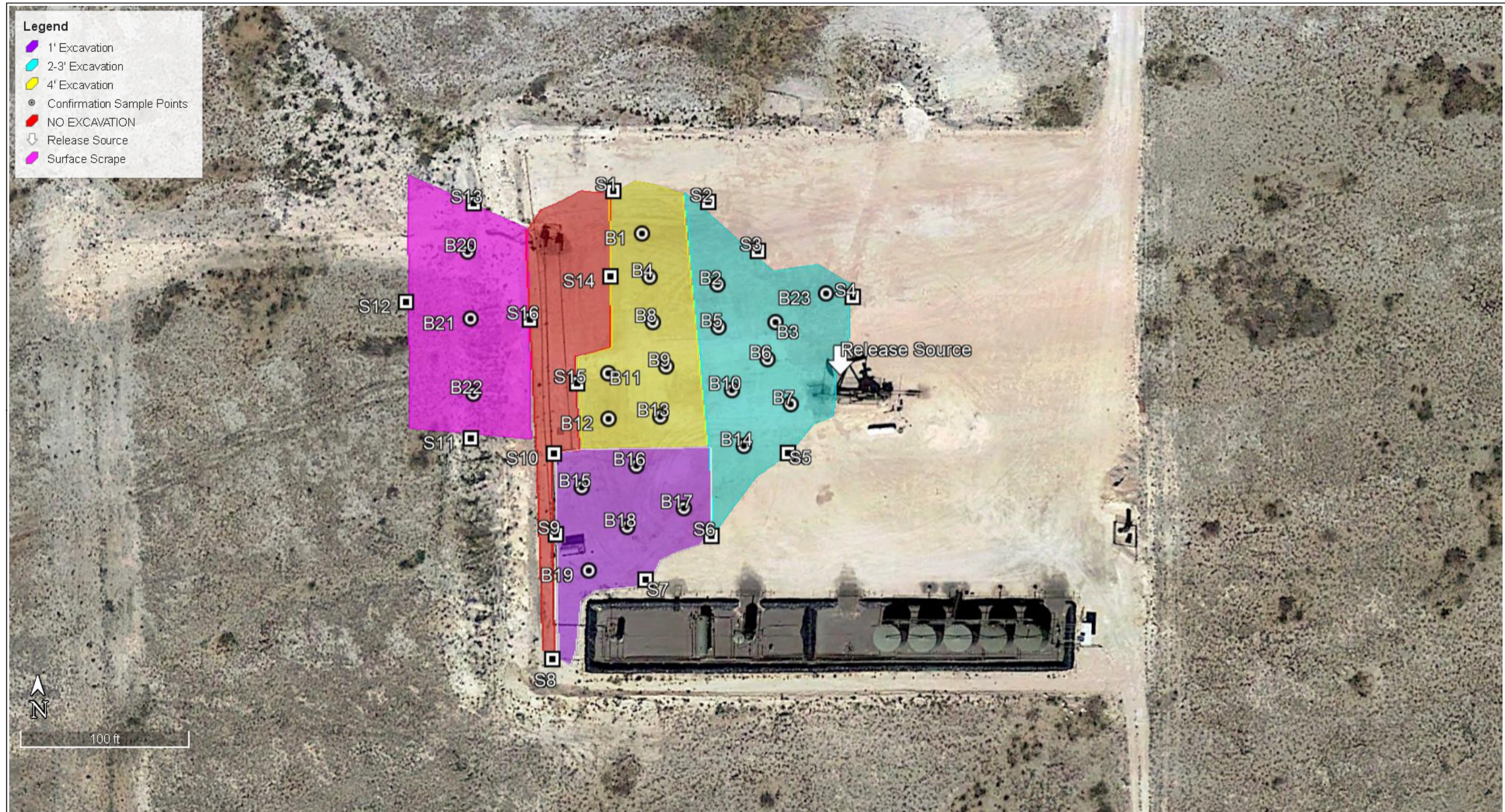
Should you have any questions or concerns please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink that reads "Dakota Neel". The signature is written in a cursive, slightly slanted style.

Dakota Neel
HSE Coordinator
Dneel2@concho.com

FIGURES



TABLES

Table 1
COG Operating LLC.
Windmill 32 Federal Com #004H
Eddy County, New Mexico

Sample ID	Sample Depth (ft)	Sample Date	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total			
NMOCD RRAL Limits (mg/kg)					-	-	-	100	10	50	600
B 1	4	3/8/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	112
B 2	3	3/8/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	160
B 3	3	3/8/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	176
B 4	4	3/5/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	48
B 5	3	3/8/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	272
B 6	3	3/5/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	80
B 7	3	3/5/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	160
B 8	4	3/5/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	48
B 9	4	3/8/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	448
B 10	3	3/5/2019		X	<10.0	<10.0	<10.0	0.0	<0.050	<0.050	928
B 10	4	3/18/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	160
B 12	4	3/5/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	80
B 13	4	3/5/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	240
B 14	3	3/5/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	256
B 15	1	3/5/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	80
B 16	1	3/5/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	464
B 17	1	3/5/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	256
B 18	1	3/5/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	64
B 19	1	3/5/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	32
B 20	Surface	3/5/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	112
B 21	Surface	3/5/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	144
B 22	Surface	3/5/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	32
B 23	3	3/18/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	304
S 1	N/A	3/7/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	48
S 2	N/A	3/7/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	288
S 3	N/A	3/7/2019	X		<10.0	14	<10.0	14.0	<0.050	<0.050	576
S 4	N/A	3/18/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	240
S 5	N/A	3/7/2019		X	<10.0	24.1	<10.0	24.1	<0.050	<0.050	720
S 5	N/A	3/18/2019	X		<10.1	17	<10.1	17.0	<0.050	<0.050	176
S 6	N/A	3/7/2019	X		<10.0	11	<10.0	11.0	<0.050	<0.050	176
S 7	N/A	3/7/2019		X	<10.0	<10.0	<10.0	0.0	<0.050	<0.050	640
S 7	N/A	3/18/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	288
S 9	N/A	3/18/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	208
S 10	N/A	3/7/2019	X		<10.0	13.8	<10.0	13.8	<0.050	<0.050	80
S 11	N/A	3/7/2019	X		<10.0	18.7	<10.0	18.7	<0.050	<0.050	160
S 12	N/A	3/7/2019	X		<10.0	17.7	<10.0	17.7	<0.050	<0.050	192
S 13	N/A	3/7/2019	X		<10.0	23.6	<10.0	23.6	<0.050	<0.050	240
S 14	N/A	3/5/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	128
S 15	N/A	3/7/2019		X	<10.0	<10.0	<10.0	0.0	<0.050	<0.050	608
S 15	N/A	3/18/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	64
S 16	N/A	3/18/2019	X		<10.0	<10.0	<10.0	0.0	<0.050	<0.050	240

APPENDIX A

District I
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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: _____	Title: _____
Signature: <u>Delann Opreant</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: _____	Date: _____

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?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

<p>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"><input type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.<input type="checkbox"/> Field data<input type="checkbox"/> Data table of soil contaminant concentration data<input type="checkbox"/> Depth to water determination<input type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release<input type="checkbox"/> Boring or excavation logs<input type="checkbox"/> Photographs including date and GIS information<input type="checkbox"/> Topographic/Aerial maps<input type="checkbox"/> 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.

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: _____ Title: _____

Signature:  Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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: _____ Title: _____

Signature: David New Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure


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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature:  _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

APPENDIX B



New Mexico Office of the State Engineer


Water Right Summary

WR File Number: RA 05664 **Subbasin:** RA **Cross Reference:-**
Primary Purpose: EXP EXPLORATION
Primary Status: PMT PERMIT
Total Acres: **Subfile:** - **Header:** -
Total Diversion: 0 **Cause/Case:** -
Owner: YATES DRILLING COMPANY

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
255229	EXPL	1971-06-04	PMT	APR	RA 05664	T	0	0	









Current Points of Diversion

POD Number	Well Tag	Source	Q Q Q			(NAD83 UTM in meters)		Other Location Desc		
			64 16 4	Sec	Tws	Rng	X		Y	
RA 05664		Artesian	4	1	33	18S	27E	566914	3618936*	




An () after northing value indicates UTM location was derived from PLSS - see Help

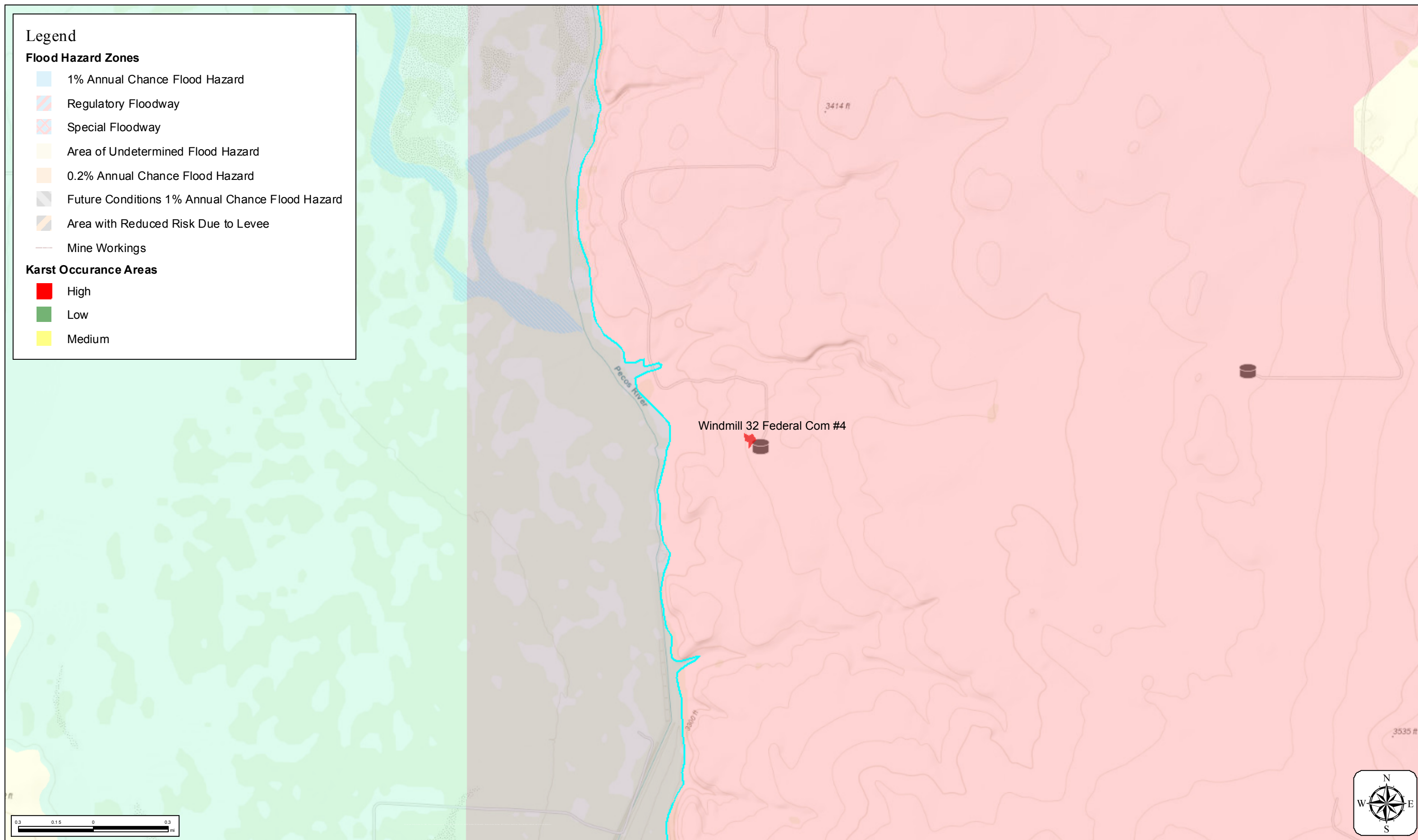
Legend

Flood Hazard Zones

-  1% Annual Chance Flood Hazard
-  Regulatory Floodway
-  Special Floodway
-  Area of Undetermined Flood Hazard
-  0.2% Annual Chance Flood Hazard
-  Future Conditions 1% Annual Chance Flood Hazard
-  Area with Reduced Risk Due to Levee
-  Mine Workings

Karst Occurance Areas

-  High
-  Low
-  Medium





APPENDIX C

March 13, 2019

LUPE CARRASCO

MMX

2737 PECOS HWY

CARLSBAD, NM 88220

RE: WINDMILL 32 FED COM #4H

Enclosed are the results of analyses for samples received by the laboratory on 03/07/19 12:15.

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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/07/2019	Sampling Date:	03/05/2019
Reported:	03/13/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SW 14 (H900932-01)

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	03/07/2019	ND	1.96	98.1	2.00	0.702	
Toluene*	<0.050	0.050	03/07/2019	ND	2.07	103	2.00	0.500	
Ethylbenzene*	<0.050	0.050	03/07/2019	ND	1.94	97.2	2.00	0.454	
Total Xylenes*	<0.150	0.150	03/07/2019	ND	5.58	93.0	6.00	0.230	
Total BTEX	<0.300	0.300	03/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/11/2019	ND	416	104	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	03/08/2019	ND	179	89.3	200	6.29	
DRO >C10-C28*	<10.0	10.0	03/08/2019	ND	174	86.9	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/08/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/07/2019	Sampling Date:	03/06/2019
Reported:	03/13/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 4 (H900932-02)

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	03/07/2019	ND	1.96	98.1	2.00	0.702	
Toluene*	<0.050	0.050	03/07/2019	ND	2.07	103	2.00	0.500	
Ethylbenzene*	<0.050	0.050	03/07/2019	ND	1.94	97.2	2.00	0.454	
Total Xylenes*	<0.150	0.150	03/07/2019	ND	5.58	93.0	6.00	0.230	
Total BTEx	<0.300	0.300	03/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 74.3 % 73.3-129

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	03/11/2019	ND	416	104	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	03/08/2019	ND	179	89.3	200	6.29	
DRO >C10-C28*	<10.0	10.0	03/08/2019	ND	174	86.9	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/08/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/07/2019	Sampling Date:	03/05/2019
Reported:	03/13/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 6 (H900932-03)

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	03/07/2019	ND	1.96	98.1	2.00	0.702		
Toluene*	<0.050	0.050	03/07/2019	ND	2.07	103	2.00	0.500		
Ethylbenzene*	<0.050	0.050	03/07/2019	ND	1.94	97.2	2.00	0.454		
Total Xylenes*	<0.150	0.150	03/07/2019	ND	5.58	93.0	6.00	0.230		
Total BTEX	<0.300	0.300	03/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.0 % 73.3-129

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/11/2019	ND	416	104	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	03/08/2019	ND	179	89.3	200	6.29	
DRO >C10-C28*	<10.0	10.0	03/08/2019	ND	174	86.9	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/08/2019	ND					

Surrogate: 1-Chlorooctane 99.9 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/07/2019	Sampling Date:	03/05/2019
Reported:	03/13/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 7 (H900932-04)

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	03/07/2019	ND	1.96	98.1	2.00	0.702	
Toluene*	<0.050	0.050	03/07/2019	ND	2.07	103	2.00	0.500	
Ethylbenzene*	<0.050	0.050	03/07/2019	ND	1.94	97.2	2.00	0.454	
Total Xylenes*	<0.150	0.150	03/07/2019	ND	5.58	93.0	6.00	0.230	
Total BTEx	<0.300	0.300	03/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/11/2019	ND	416	104	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	03/08/2019	ND	179	89.3	200	6.29	
DRO >C10-C28*	<10.0	10.0	03/08/2019	ND	174	86.9	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/08/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/07/2019	Sampling Date:	03/06/2019
Reported:	03/13/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 8 (H900932-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2019	ND	1.96	98.1	2.00	0.702	
Toluene*	<0.050	0.050	03/07/2019	ND	2.07	103	2.00	0.500	
Ethylbenzene*	<0.050	0.050	03/07/2019	ND	1.94	97.2	2.00	0.454	
Total Xylenes*	<0.150	0.150	03/07/2019	ND	5.58	93.0	6.00	0.230	
Total BTEx	<0.300	0.300	03/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 79.5 % 73.3-129

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	03/11/2019	ND	416	104	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	03/08/2019	ND	179	89.3	200	6.29	
DRO >C10-C28*	<10.0	10.0	03/08/2019	ND	174	86.9	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/08/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/07/2019	Sampling Date:	03/06/2019
Reported:	03/13/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 10 (H900932-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2019	ND	1.96	98.1	2.00	0.702	
Toluene*	<0.050	0.050	03/07/2019	ND	2.07	103	2.00	0.500	
Ethylbenzene*	<0.050	0.050	03/07/2019	ND	1.94	97.2	2.00	0.454	
Total Xylenes*	<0.150	0.150	03/07/2019	ND	5.58	93.0	6.00	0.230	
Total BTEx	<0.300	0.300	03/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	03/11/2019	ND	416	104	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	03/08/2019	ND	179	89.3	200	6.29	
DRO >C10-C28*	<10.0	10.0	03/08/2019	ND	174	86.9	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/08/2019	ND					

Surrogate: 1-Chlorooctane 96.4 % 41-142

Surrogate: 1-Chlorooctadecane 99.6 % 37.6-147

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Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/07/2019	Sampling Date:	03/06/2019
Reported:	03/13/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 11 (H900932-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2019	ND	1.96	98.1	2.00	0.702	
Toluene*	<0.050	0.050	03/08/2019	ND	2.07	103	2.00	0.500	
Ethylbenzene*	<0.050	0.050	03/08/2019	ND	1.94	97.2	2.00	0.454	
Total Xylenes*	<0.150	0.150	03/08/2019	ND	5.58	93.0	6.00	0.230	
Total BTEx	<0.300	0.300	03/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/11/2019	ND	416	104	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	03/08/2019	ND	179	89.3	200	6.29	
DRO >C10-C28*	<10.0	10.0	03/08/2019	ND	174	86.9	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/08/2019	ND					

Surrogate: 1-Chlorooctane 93.3 % 41-142

Surrogate: 1-Chlorooctadecane 98.2 % 37.6-147

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Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/07/2019	Sampling Date:	03/06/2019
Reported:	03/13/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 12 (H900932-08)

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	03/08/2019	ND	1.96	98.1	2.00	0.702	
Toluene*	<0.050	0.050	03/08/2019	ND	2.07	103	2.00	0.500	
Ethylbenzene*	<0.050	0.050	03/08/2019	ND	1.94	97.2	2.00	0.454	
Total Xylenes*	<0.150	0.150	03/08/2019	ND	5.58	93.0	6.00	0.230	
Total BTEx	<0.300	0.300	03/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2019	ND	416	104	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	03/08/2019	ND	179	89.3	200	6.29	
DRO >C10-C28*	<10.0	10.0	03/08/2019	ND	174	86.9	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/08/2019	ND					

Surrogate: 1-Chlorooctane 86.0 % 41-142

Surrogate: 1-Chlorooctadecane 88.7 % 37.6-147

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Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/07/2019	Sampling Date:	03/06/2019
Reported:	03/13/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 13 (H900932-09)

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	03/08/2019	ND	1.96	98.1	2.00	0.702	
Toluene*	<0.050	0.050	03/08/2019	ND	2.07	103	2.00	0.500	
Ethylbenzene*	<0.050	0.050	03/08/2019	ND	1.94	97.2	2.00	0.454	
Total Xylenes*	<0.150	0.150	03/08/2019	ND	5.58	93.0	6.00	0.230	
Total BTEx	<0.300	0.300	03/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 73.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/11/2019	ND	416	104	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	03/08/2019	ND	179	89.3	200	6.29	
DRO >C10-C28*	<10.0	10.0	03/08/2019	ND	174	86.9	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/08/2019	ND					

Surrogate: 1-Chlorooctane 95.2 % 41-142

Surrogate: 1-Chlorooctadecane 99.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/07/2019	Sampling Date:	03/06/2019
Reported:	03/13/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 14 (H900932-10)

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	03/08/2019	ND	1.96	98.1	2.00	0.702	
Toluene*	<0.050	0.050	03/08/2019	ND	2.07	103	2.00	0.500	
Ethylbenzene*	<0.050	0.050	03/08/2019	ND	1.94	97.2	2.00	0.454	
Total Xylenes*	<0.150	0.150	03/08/2019	ND	5.58	93.0	6.00	0.230	
Total BTEx	<0.300	0.300	03/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/11/2019	ND	416	104	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	03/08/2019	ND	179	89.3	200	6.29	
DRO >C10-C28*	<10.0	10.0	03/08/2019	ND	174	86.9	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/08/2019	ND					

Surrogate: 1-Chlorooctane 92.6 % 41-142

Surrogate: 1-Chlorooctadecane 96.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/07/2019	Sampling Date:	03/06/2019
Reported:	03/13/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 15 (H900932-11)

BTX 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	03/08/2019	ND	2.02	101	2.00	1.55	
Toluene*	<0.050	0.050	03/08/2019	ND	2.04	102	2.00	1.20	
Ethylbenzene*	<0.050	0.050	03/08/2019	ND	1.87	93.3	2.00	0.265	
Total Xylenes*	<0.150	0.150	03/08/2019	ND	5.40	90.0	6.00	0.290	
Total BTX	<0.300	0.300	03/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 85.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2019	ND	416	104	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	03/08/2019	ND	179	89.3	200	6.29	
DRO >C10-C28*	<10.0	10.0	03/08/2019	ND	174	86.9	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/08/2019	ND					

Surrogate: 1-Chlorooctane 98.9 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/07/2019	Sampling Date:	03/06/2019
Reported:	03/13/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 16 (H900932-12)

BTX 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	03/08/2019	ND	2.02	101	2.00	1.55	
Toluene*	<0.050	0.050	03/08/2019	ND	2.04	102	2.00	1.20	
Ethylbenzene*	<0.050	0.050	03/08/2019	ND	1.87	93.3	2.00	0.265	
Total Xylenes*	<0.150	0.150	03/08/2019	ND	5.40	90.0	6.00	0.290	
Total BTX	<0.300	0.300	03/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 84.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	03/11/2019	ND	416	104	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	03/08/2019	ND	179	89.3	200	6.29	
DRO >C10-C28*	<10.0	10.0	03/08/2019	ND	174	86.9	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/08/2019	ND					

Surrogate: 1-Chlorooctane 97.4 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/07/2019	Sampling Date:	03/06/2019
Reported:	03/13/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 17 (H900932-13)

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	03/08/2019	ND	2.02	101	2.00	1.55	
Toluene*	<0.050	0.050	03/08/2019	ND	2.04	102	2.00	1.20	
Ethylbenzene*	<0.050	0.050	03/08/2019	ND	1.87	93.3	2.00	0.265	
Total Xylenes*	<0.150	0.150	03/08/2019	ND	5.40	90.0	6.00	0.290	
Total BTEx	<0.300	0.300	03/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/11/2019	ND	416	104	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	03/08/2019	ND	179	89.3	200	6.29	
DRO >C10-C28*	<10.0	10.0	03/08/2019	ND	174	86.9	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/08/2019	ND					

Surrogate: 1-Chlorooctane 88.7 % 41-142

Surrogate: 1-Chlorooctadecane 90.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/07/2019	Sampling Date:	03/06/2019
Reported:	03/13/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 18 (H900932-14)

BTX 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	03/08/2019	ND	2.02	101	2.00	1.55	
Toluene*	<0.050	0.050	03/08/2019	ND	2.04	102	2.00	1.20	
Ethylbenzene*	<0.050	0.050	03/08/2019	ND	1.87	93.3	2.00	0.265	
Total Xylenes*	<0.150	0.150	03/08/2019	ND	5.40	90.0	6.00	0.290	
Total BTX	<0.300	0.300	03/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/11/2019	ND	416	104	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	03/08/2019	ND	179	89.3	200	6.29	
DRO >C10-C28*	<10.0	10.0	03/08/2019	ND	174	86.9	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/08/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/07/2019	Sampling Date:	03/06/2019
Reported:	03/13/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 19 (H900932-15)

BTX 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	03/08/2019	ND	2.02	101	2.00	1.55	
Toluene*	<0.050	0.050	03/08/2019	ND	2.04	102	2.00	1.20	
Ethylbenzene*	<0.050	0.050	03/08/2019	ND	1.87	93.3	2.00	0.265	
Total Xylenes*	<0.150	0.150	03/08/2019	ND	5.40	90.0	6.00	0.290	
Total BTX	<0.300	0.300	03/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 76.7 % 73.3-129

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	03/11/2019	ND	416	104	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	03/08/2019	ND	179	89.3	200	6.29	
DRO >C10-C28*	<10.0	10.0	03/08/2019	ND	174	86.9	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/08/2019	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/07/2019	Sampling Date:	03/06/2019
Reported:	03/13/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 20 (H900932-16)

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	03/08/2019	ND	2.02	101	2.00	1.55	
Toluene*	<0.050	0.050	03/08/2019	ND	2.04	102	2.00	1.20	
Ethylbenzene*	<0.050	0.050	03/08/2019	ND	1.87	93.3	2.00	0.265	
Total Xylenes*	<0.150	0.150	03/08/2019	ND	5.40	90.0	6.00	0.290	
Total BTEX	<0.300	0.300	03/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/11/2019	ND	384	96.0	400	4.08	QR-03	

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	03/08/2019	ND	179	89.3	200	6.29	
DRO >C10-C28*	<10.0	10.0	03/08/2019	ND	174	86.9	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/08/2019	ND					

Surrogate: 1-Chlorooctane 93.2 % 41-142

Surrogate: 1-Chlorooctadecane 96.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 MMX
 LUPE CARRASCO
 2737 PECOS HWY
 CARLSBAD NM, 88220
 Fax To: (575) 236-6201

Received:	03/07/2019	Sampling Date:	03/06/2019
Reported:	03/13/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 21 (H900932-17)

BTX 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	03/08/2019	ND	2.02	101	2.00	1.55	
Toluene*	<0.050	0.050	03/08/2019	ND	2.04	102	2.00	1.20	
Ethylbenzene*	<0.050	0.050	03/08/2019	ND	1.87	93.3	2.00	0.265	
Total Xylenes*	<0.150	0.150	03/08/2019	ND	5.40	90.0	6.00	0.290	
Total BTX	<0.300	0.300	03/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/11/2019	ND	384	96.0	400	4.08	

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	03/08/2019	ND	179	89.3	200	6.29	
DRO >C10-C28*	<10.0	10.0	03/08/2019	ND	174	86.9	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/08/2019	ND					

Surrogate: 1-Chlorooctane 97.6 % 41-142

Surrogate: 1-Chlorooctadecane 99.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 MMX
 LUPE CARRASCO
 2737 PECOS HWY
 CARLSBAD NM, 88220
 Fax To: (575) 236-6201

Received:	03/07/2019	Sampling Date:	03/06/2019
Reported:	03/13/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 22 (H900932-18)

BTX 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	03/08/2019	ND	2.02	101	2.00	1.55	
Toluene*	<0.050	0.050	03/08/2019	ND	2.04	102	2.00	1.20	
Ethylbenzene*	<0.050	0.050	03/08/2019	ND	1.87	93.3	2.00	0.265	
Total Xylenes*	<0.150	0.150	03/08/2019	ND	5.40	90.0	6.00	0.290	
Total BTX	<0.300	0.300	03/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 78.7 % 73.3-129

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	03/11/2019	ND	384	96.0	400	4.08	

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	03/08/2019	ND	193	96.6	200	6.39	
DRO >C10-C28*	<10.0	10.0	03/08/2019	ND	207	103	200	6.21	
EXT DRO >C28-C36	<10.0	10.0	03/08/2019	ND					

Surrogate: 1-Chlorooctane 86.5 % 41-142

Surrogate: 1-Chlorooctadecane 95.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>MMK</u>		BILL TO		ANALYSIS REQUEST																			
Project Manager: <u>Lupe Carrasco</u>		P.O. #:																					
Address:		Company: <u>COG</u>																					
City:		Attn: <u>Dakota</u>																					
State:		Address:																					
Phone #:		City:																					
Fax #:		State:																					
Project #:		Zip:																					
Project Name: <u>Windmill 32 Federal Cor # 4H</u>		Phone #:																					
Project Location:		Fax #:																					
Sampler Name:																							
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		MATRIX		PRESERV.		SAMPLING															
H900932																							
1		B4		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		DATE		TIME											
2		B4						WASTEWATER		3/5/19													
3		B4						SOIL		3/6/19													
4		B7						OIL		3/5/19													
5		B8						SLUDGE		3/6/19													
6		B10						OTHER :															
7		B11						ACID/BASE:															
8		B12						ICE / COOL															
9		B13						OTHER :															
10		B14																					
Relinquished By: <u>MMK</u>		Date: <u>3/7/19</u>		Received By: <u>MMK</u>		Time: <u>12:15</u>		Sample Condition: <u>Intact</u>		CHECKED BY: <u>MMK</u>		REMARKS: <u>BTX</u>											
Delivered By: (Circle One)		-0.0021 #97		Sample Condition: <u>Intact</u>		CHECKED BY: <u>MMK</u>		REMARKS: <u>BTX</u>															
Sampler - UPS - Bus - Other:				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>																			
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101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2092

Company Name: <u>PPM</u>		P.O. #:		BILL TO																																					
Project Manager: <u>Lupe Carrasco</u>		Company: <u>COG</u>		ANALYSIS REQUEST																																					
Address:		Attn: <u>Dakota</u>																																							
City:		Address:																																							
Phone #:		City:																																							
Fax #:		State:																																							
Project #:		Zip:																																							
Project Name: <u>Windmill 32 Federal Corn #44</u>		Phone #:																																							
Project Location:		Fax #:																																							
Sampler Name:																																									
FOR LAB USE ONLY																																									
Lab I.D. <u>H900932</u>		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
11		B15																								3/6/19				BTEX											
12		B14																												TPH											
13		B17																												Chlorides											
14		B18																																							
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March 14, 2019

LUPE CARRASCO

MMX

2737 PECOS HWY

CARLSBAD, NM 88220

RE: WINDMILL 32 FED COM #4H

Enclosed are the results of analyses for samples received by the laboratory on 03/08/19 17:00.

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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/08/2019	Sampling Date:	03/07/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SW - 1 (H900956-01)

BTX 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	03/13/2019	ND	2.01	100	2.00	0.103	
Toluene*	<0.050	0.050	03/13/2019	ND	1.86	93.2	2.00	0.296	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	1.98	98.9	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.01	100	6.00	1.52	
Total BTX	<0.300	0.300	03/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 73.3-129

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	03/13/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	209	105	200	0.443	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 83.3 % 41-142

Surrogate: 1-Chlorooctadecane 84.5 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/08/2019	Sampling Date:	03/07/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SW - 2 (H900956-02)

BTX 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	03/13/2019	ND	2.01	100	2.00	0.103	
Toluene*	<0.050	0.050	03/13/2019	ND	1.86	93.2	2.00	0.296	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	1.98	98.9	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.01	100	6.00	1.52	
Total BTX	<0.300	0.300	03/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/13/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	209	105	200	0.443	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 84.9 % 41-142

Surrogate: 1-Chlorooctadecane 83.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/08/2019	Sampling Date:	03/07/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SW - 3 (H900956-03)

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	03/13/2019	ND	2.01	100	2.00	0.103	
Toluene*	<0.050	0.050	03/13/2019	ND	1.86	93.2	2.00	0.296	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	1.98	98.9	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.01	100	6.00	1.52	
Total BTEX	<0.300	0.300	03/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	03/13/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	209	105	200	0.443	
DRO >C10-C28*	14.4	10.0	03/12/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 85.1 % 41-142

Surrogate: 1-Chlorooctadecane 87.9 % 37.6-147

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Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/08/2019	Sampling Date:	03/07/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SW - 5 (H900956-04)

BTX 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	03/13/2019	ND	2.01	100	2.00	0.103		
Toluene*	<0.050	0.050	03/13/2019	ND	1.86	93.2	2.00	0.296		
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	1.98	98.9	2.00	1.67		
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.01	100	6.00	1.52		
Total BTX	<0.300	0.300	03/13/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	03/13/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	209	105	200	0.443	
DRO >C10-C28*	24.1	10.0	03/12/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 90.8 % 41-142

Surrogate: 1-Chlorooctadecane 92.1 % 37.6-147

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Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/08/2019	Sampling Date:	03/07/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SW - 6 (H900956-05)

BTX 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	03/13/2019	ND	2.01	100	2.00	0.103	
Toluene*	<0.050	0.050	03/13/2019	ND	1.86	93.2	2.00	0.296	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	1.98	98.9	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.01	100	6.00	1.52	
Total BTX	<0.300	0.300	03/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/13/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	209	105	200	0.443	
DRO >C10-C28*	11.0	10.0	03/12/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 85.7 % 41-142

Surrogate: 1-Chlorooctadecane 85.4 % 37.6-147

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Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/08/2019	Sampling Date:	03/07/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SW - 7 (H900956-06)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2019	ND	2.01	100	2.00	0.103	
Toluene*	<0.050	0.050	03/13/2019	ND	1.86	93.2	2.00	0.296	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	1.98	98.9	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.01	100	6.00	1.52	
Total BTEX	<0.300	0.300	03/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	03/13/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	209	105	200	0.443	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 89.9 % 41-142

Surrogate: 1-Chlorooctadecane 91.1 % 37.6-147

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Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/08/2019	Sampling Date:	03/07/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SW - 8 (H900956-07)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2019	ND	2.01	100	2.00	0.103	
Toluene*	<0.050	0.050	03/13/2019	ND	1.86	93.2	2.00	0.296	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	1.98	98.9	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.01	100	6.00	1.52	
Total BTEX	<0.300	0.300	03/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/13/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	14.5	10.0	03/12/2019	ND	209	105	200	0.443	
DRO >C10-C28*	20.8	10.0	03/12/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 81.4 % 41-142

Surrogate: 1-Chlorooctadecane 83.5 % 37.6-147

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Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/08/2019	Sampling Date:	03/07/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SW - 10 (H900956-08)

BTX 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	03/13/2019	ND	2.01	100	2.00	0.103		
Toluene*	<0.050	0.050	03/13/2019	ND	1.86	93.2	2.00	0.296		
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	1.98	98.9	2.00	1.67		
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.01	100	6.00	1.52		
Total BTX	<0.300	0.300	03/13/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/14/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	209	105	200	0.443	
DRO >C10-C28*	13.8	10.0	03/12/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 84.0 % 41-142

Surrogate: 1-Chlorooctadecane 84.5 % 37.6-147

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Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/08/2019	Sampling Date:	03/07/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SW - 11 (H900956-09)

BTX 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	03/13/2019	ND	2.01	100	2.00	0.103	
Toluene*	<0.050	0.050	03/13/2019	ND	1.86	93.2	2.00	0.296	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	1.98	98.9	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.01	100	6.00	1.52	
Total BTX	<0.300	0.300	03/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/14/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	209	105	200	0.443	
DRO >C10-C28*	18.7	10.0	03/12/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 84.4 % 41-142

Surrogate: 1-Chlorooctadecane 84.2 % 37.6-147

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Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/08/2019	Sampling Date:	03/07/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SW - 12 (H900956-10)

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	03/13/2019	ND	2.01	100	2.00	0.103		
Toluene*	<0.050	0.050	03/13/2019	ND	1.86	93.2	2.00	0.296		
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	1.98	98.9	2.00	1.67		
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.01	100	6.00	1.52		
Total BTEx	<0.300	0.300	03/13/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/14/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	209	105	200	0.443	
DRO >C10-C28*	17.7	10.0	03/12/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 90.7 % 41-142

Surrogate: 1-Chlorooctadecane 87.4 % 37.6-147

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Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/08/2019	Sampling Date:	03/07/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SW - 13 (H900956-11)

BTX 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	03/13/2019	ND	2.01	100	2.00	0.103	
Toluene*	<0.050	0.050	03/13/2019	ND	1.86	93.2	2.00	0.296	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	1.98	98.9	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.01	100	6.00	1.52	
Total BTX	<0.300	0.300	03/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/14/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	209	105	200	0.443	
DRO >C10-C28*	23.6	10.0	03/12/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 90.3 % 41-142

Surrogate: 1-Chlorooctadecane 85.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 MMX
 LUPE CARRASCO
 2737 PECOS HWY
 CARLSBAD NM, 88220
 Fax To: (575) 236-6201

Received:	03/08/2019	Sampling Date:	03/07/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SW - 15 (H900956-12)

BTX 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	03/13/2019	ND	2.01	100	2.00	0.103	
Toluene*	<0.050	0.050	03/13/2019	ND	1.86	93.2	2.00	0.296	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	1.98	98.9	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.01	100	6.00	1.52	
Total BTX	<0.300	0.300	03/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	03/14/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	209	105	200	0.443	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 82.3 % 41-142

Surrogate: 1-Chlorooctadecane 77.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/08/2019	Sampling Date:	03/08/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 1 (H900956-13)

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	03/13/2019	ND	2.01	100	2.00	0.103	
Toluene*	<0.050	0.050	03/13/2019	ND	1.86	93.2	2.00	0.296	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	1.98	98.9	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.01	100	6.00	1.52	
Total BTEX	<0.300	0.300	03/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/14/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	209	105	200	0.443	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 87.3 % 41-142

Surrogate: 1-Chlorooctadecane 84.1 % 37.6-147

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Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/08/2019	Sampling Date:	03/08/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 2 (H900956-14)

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	03/13/2019	ND	2.01	100	2.00	0.103	
Toluene*	<0.050	0.050	03/13/2019	ND	1.86	93.2	2.00	0.296	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	1.98	98.9	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.01	100	6.00	1.52	
Total BTEX	<0.300	0.300	03/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/14/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	209	105	200	0.443	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 86.2 % 41-142

Surrogate: 1-Chlorooctadecane 81.8 % 37.6-147

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Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/08/2019	Sampling Date:	03/08/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 3 (H900956-15)

BTX 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	03/13/2019	ND	2.01	100	2.00	0.103	
Toluene*	<0.050	0.050	03/13/2019	ND	1.86	93.2	2.00	0.296	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	1.98	98.9	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.01	100	6.00	1.52	
Total BTX	<0.300	0.300	03/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/14/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	209	105	200	0.443	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 82.9 % 41-142

Surrogate: 1-Chlorooctadecane 80.4 % 37.6-147

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Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/08/2019	Sampling Date:	03/08/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 5 (H900956-16)

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	03/13/2019	ND	2.01	100	2.00	0.103	
Toluene*	<0.050	0.050	03/13/2019	ND	1.86	93.2	2.00	0.296	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	1.98	98.9	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.01	100	6.00	1.52	
Total BTEX	<0.300	0.300	03/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	03/14/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	209	105	200	0.443	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 85.8 % 41-142

Surrogate: 1-Chlorooctadecane 84.6 % 37.6-147

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Analytical Results For:

 MMX
 LUPE CARRASCO
 2737 PECOS HWY
 CARLSBAD NM, 88220
 Fax To: (575) 236-6201

Received:	03/08/2019	Sampling Date:	03/08/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: B 9 (H900956-17)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2019	ND	2.01	100	2.00	0.103	
Toluene*	<0.050	0.050	03/13/2019	ND	1.86	93.2	2.00	0.296	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	1.98	98.9	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.01	100	6.00	1.52	
Total BTEX	<0.300	0.300	03/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	03/14/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	209	105	200	0.443	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 85.1 % 41-142

Surrogate: 1-Chlorooctadecane 84.2 % 37.6-147

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Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/08/2019	Sampling Date:	03/08/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: 1' / 4' (H900956-18)

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	03/13/2019	ND	2.01	100	2.00	0.103	
Toluene*	<0.050	0.050	03/13/2019	ND	1.86	93.2	2.00	0.296	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	1.98	98.9	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.01	100	6.00	1.52	
Total BTEX	<0.300	0.300	03/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/14/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	202	101	200	1.71	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	205	102	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 99.7 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/08/2019	Sampling Date:	03/08/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: 3' / 1' (H900956-19)

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	03/13/2019	ND	2.12	106	2.00	0.322	
Toluene*	<0.050	0.050	03/13/2019	ND	1.93	96.4	2.00	1.65	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	2.06	103	2.00	1.32	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.29	105	6.00	1.03	
Total BTEx	<0.300	0.300	03/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/14/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	202	101	200	1.71	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	205	102	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 93.8 % 41-142

Surrogate: 1-Chlorooctadecane 97.1 % 37.6-147

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Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/08/2019	Sampling Date:	03/08/2019
Reported:	03/14/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: 3' / 4' (H900956-20)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2019	ND	2.12	106	2.00	0.322	
Toluene*	<0.050	0.050	03/13/2019	ND	1.93	96.4	2.00	1.65	
Ethylbenzene*	<0.050	0.050	03/13/2019	ND	2.06	103	2.00	1.32	
Total Xylenes*	<0.150	0.150	03/13/2019	ND	6.29	105	6.00	1.03	
Total BTEx	<0.300	0.300	03/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	03/14/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2019	ND	202	101	200	1.71	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	205	102	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

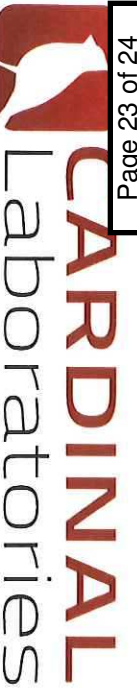
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

10/2

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

Company Name: <u>MMX</u>		BILL TO		ANALYSIS REQUEST																									
Project Manager: <u>Lupe Curasco</u>		P.O. #:																											
Address:		Company: <u>COE</u>																											
City:		Attn: <u>Sheldon Dator</u>																											
State:		Address:																											
Phone #:		City:																											
Fax #:		State:																											
Project #:		Zip:																											
Project Name: <u>Windmill 32 Fed Com #4H</u>		Phone #:																											
Project Location:		Fax #:																											
Sampler Name:		PRESERV		SAMPLING																									
FOR LAB USE ONLY																													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME	
H900956																													
1 SW-1																													
2 SW-2																													
3 SW-3																													
4 SW-5																													
5 SW-6																													
6 SW-7																													
7 SW-8																													
8 SW-10																													
9 SW-11																													
10 SW-12																													

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Relinquished By:	Date: <u>3/1/11</u>	Received By:	Date: <u>3/1/11</u>
Relinquished By:	Date: <u>3/1/11</u>	Received By:	Date: <u>3/1/11</u>

Delivered By: (Circle One) 5.12 / #97

Sampler - UPS - Bus - Other: 5.12 / #97

Sample Condition: ☒ Cool ☐ Intact ☐ Yes ☐ No

CHECKED BY: [Signature]

REMARKS: Email: lupemurine@gmail.com

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

202

March 21, 2019

LUPE CARRASCO

MMX

2737 PECOS HWY

CARLSBAD, NM 88220

RE: WINDMILL 32 FED COM #4H

Enclosed are the results of analyses for samples received by the laboratory on 03/18/19 11:30.

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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/18/2019	Sampling Date:	03/18/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: S 4 (H901030-01)

BTX 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	03/19/2019	ND	2.08	104	2.00	0.400	
Toluene*	<0.050	0.050	03/19/2019	ND	1.92	95.9	2.00	1.25	
Ethylbenzene*	<0.050	0.050	03/19/2019	ND	1.97	98.4	2.00	1.39	
Total Xylenes*	<0.150	0.150	03/19/2019	ND	5.99	99.8	6.00	0.300	
Total BTX	<0.300	0.300	03/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/19/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2019	ND	207	103	200	4.90	
DRO >C10-C28*	<10.0	10.0	03/18/2019	ND	204	102	200	7.04	
EXT DRO >C28-C36	<10.0	10.0	03/18/2019	ND					

Surrogate: 1-Chlorooctane 91.4 % 41-142

Surrogate: 1-Chlorooctadecane 92.9 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/18/2019	Sampling Date:	03/18/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: S 5 (H901030-02)

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	03/19/2019	ND	2.08	104	2.00	0.400	
Toluene*	<0.050	0.050	03/19/2019	ND	1.92	95.9	2.00	1.25	
Ethylbenzene*	<0.050	0.050	03/19/2019	ND	1.97	98.4	2.00	1.39	
Total Xylenes*	<0.150	0.150	03/19/2019	ND	5.99	99.8	6.00	0.300	
Total BTEx	<0.300	0.300	03/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/19/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2019	ND	207	103	200	4.90	
DRO >C10-C28*	17.0	10.0	03/18/2019	ND	204	102	200	7.04	
EXT DRO >C28-C36	<10.0	10.0	03/18/2019	ND					

Surrogate: 1-Chlorooctane 82.3 % 41-142

Surrogate: 1-Chlorooctadecane 81.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/18/2019	Sampling Date:	03/18/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: S 7 (H901030-03)

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	03/19/2019	ND	2.08	104	2.00	0.400	
Toluene*	<0.050	0.050	03/19/2019	ND	1.92	95.9	2.00	1.25	
Ethylbenzene*	<0.050	0.050	03/19/2019	ND	1.97	98.4	2.00	1.39	
Total Xylenes*	<0.150	0.150	03/19/2019	ND	5.99	99.8	6.00	0.300	
Total BTEX	<0.300	0.300	03/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/19/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2019	ND	207	103	200	4.90	
DRO >C10-C28*	<10.0	10.0	03/18/2019	ND	204	102	200	7.04	
EXT DRO >C28-C36	<10.0	10.0	03/18/2019	ND					

Surrogate: 1-Chlorooctane 93.4 % 41-142

Surrogate: 1-Chlorooctadecane 90.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/18/2019	Sampling Date:	03/18/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: S 9 (H901030-04)

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	03/19/2019	ND	2.08	104	2.00	0.400	
Toluene*	<0.050	0.050	03/19/2019	ND	1.92	95.9	2.00	1.25	
Ethylbenzene*	<0.050	0.050	03/19/2019	ND	1.97	98.4	2.00	1.39	
Total Xylenes*	<0.150	0.150	03/19/2019	ND	5.99	99.8	6.00	0.300	
Total BTEX	<0.300	0.300	03/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/19/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2019	ND	207	103	200	4.90	
DRO >C10-C28*	<10.0	10.0	03/18/2019	ND	204	102	200	7.04	
EXT DRO >C28-C36	<10.0	10.0	03/18/2019	ND					

Surrogate: 1-Chlorooctane 91.5 % 41-142

Surrogate: 1-Chlorooctadecane 89.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/18/2019	Sampling Date:	03/18/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: S 16 (H901030-05)

BTX 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	03/19/2019	ND	1.89	94.6	2.00	3.16	
Toluene*	<0.050	0.050	03/19/2019	ND	1.98	98.9	2.00	2.42	
Ethylbenzene*	<0.050	0.050	03/19/2019	ND	2.19	109	2.00	1.44	
Total Xylenes*	<0.150	0.150	03/19/2019	ND	6.27	105	6.00	0.731	
Total BTX	<0.300	0.300	03/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/19/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2019	ND	207	103	200	4.90	
DRO >C10-C28*	<10.0	10.0	03/18/2019	ND	204	102	200	7.04	
EXT DRO >C28-C36	<10.0	10.0	03/18/2019	ND					

Surrogate: 1-Chlorooctane 87.4 % 41-142

Surrogate: 1-Chlorooctadecane 85.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/18/2019	Sampling Date:	03/18/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: S 15 (H901030-06)

BTX 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	03/19/2019	ND	1.89	94.6	2.00	3.16	
Toluene*	<0.050	0.050	03/19/2019	ND	1.98	98.9	2.00	2.42	
Ethylbenzene*	<0.050	0.050	03/19/2019	ND	2.19	109	2.00	1.44	
Total Xylenes*	<0.150	0.150	03/19/2019	ND	6.27	105	6.00	0.731	
Total BTX	<0.300	0.300	03/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/19/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2019	ND	188	93.9	200	8.29	
DRO >C10-C28*	<10.0	10.0	03/18/2019	ND	210	105	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	03/18/2019	ND					

Surrogate: 1-Chlorooctane 88.6 % 41-142

Surrogate: 1-Chlorooctadecane 87.8 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/18/2019	Sampling Date:	03/18/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: B13 (H901030-07)

BTX 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	03/19/2019	ND	1.89	94.6	2.00	3.16	
Toluene*	<0.050	0.050	03/19/2019	ND	1.98	98.9	2.00	2.42	
Ethylbenzene*	<0.050	0.050	03/19/2019	ND	2.19	109	2.00	1.44	
Total Xylenes*	<0.150	0.150	03/19/2019	ND	6.27	105	6.00	0.731	
Total BTX	<0.300	0.300	03/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/19/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2019	ND	188	93.9	200	8.29	
DRO >C10-C28*	<10.0	10.0	03/18/2019	ND	210	105	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	03/18/2019	ND					

Surrogate: 1-Chlorooctane 86.8 % 41-142

Surrogate: 1-Chlorooctadecane 88.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

MMX
LUPE CARRASCO
2737 PECOS HWY
CARLSBAD NM, 88220
Fax To: (575) 236-6201

Received:	03/18/2019	Sampling Date:	03/18/2019
Reported:	03/21/2019	Sampling Type:	Soil
Project Name:	WINDMILL 32 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG		

Sample ID: B10 (H901030-08)

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	03/19/2019	ND	1.89	94.6	2.00	3.16	
Toluene*	<0.050	0.050	03/19/2019	ND	1.98	98.9	2.00	2.42	
Ethylbenzene*	<0.050	0.050	03/19/2019	ND	2.19	109	2.00	1.44	
Total Xylenes*	<0.150	0.150	03/19/2019	ND	6.27	105	6.00	0.731	
Total BTEx	<0.300	0.300	03/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/19/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2019	ND	188	93.9	200	8.29	
DRO >C10-C28*	<10.0	10.0	03/18/2019	ND	210	105	200	9.71	
EXT DRO >C28-C36	<10.0	10.0	03/18/2019	ND					

Surrogate: 1-Chlorooctane 82.8 % 41-142

Surrogate: 1-Chlorooctadecane 83.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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

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APPENDIX D

< Camera



Save

W0584
4100

32.69857, -104.29309

Altitude

3339

Sat
2/1

SW253

Created with the
version of GPS
Camera 5.520 Mar 19 13:49 Ad-hoc
Arizua, NM 88210, United States 27-Mar-19 13:49:42

< Camera



Save

W0594
4108

32.69874, -104.29359

A 1.1m

3339

1.1m

SE135



Create a free
version of GPS
images



27 Mar 19 13:52:43
Arroyo, NM 88310, United States © 27 Mar 19 13:52:43

< Camera



Save

W0584 32.69853, -104.29352 3339 SE137

27-Mar-19 12:53:41 Art-Hoc
Anasazi, NM 88210, United States © 27-Mar-19 12:53:41

< Camera



Save

WGS84
a100

32.69848, -104.29357

3337

3337

NE68



Created with free
version of GPS
Camera 55



27-Mar-19 13:54 Ad hoc

Artesia, NM 88210, United States © 27-Mar-19 13:54:25