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

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application
Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: <u>M&G Drilling Company</u> OGRID #: <u>141852</u>
Address: PO Box 5940, Farmington NM 87499
Facility or well name: Graham #053A
API Number: 30-045-06702 OCD Permit Number:
U/L or Qtr/Qtr (C) NENW Section 10 Township 27N Range 08W County: San Juan
Center of Proposed Design: Latitude <u>36.5934143</u> Longitude <u>-107.6716766</u> NAD83
Surface Owner: 🛛 Federal 🗌 State 🗋 Private 🗋 Tribal Trust or Indian Allotment
Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced
3. Z Beleve erede textus. Subsection Left 10.15.17.11.NIMAC
Kit Below-grade tank: Subsection 1 of 19.15.17.11 NMAC Visionary 210 bbl. Type of Brids Declared water
Volume: <u>210</u> bbl Type of Huld: <u>Produced water</u>
Secondary containment with lock detection . Visible sidewalls liner 6 inch lift and externatio everflow shut off
Visible sidewalls and liner N. Visible sidewalls only.
Liner type: Thickness mil \square HDPE \square PVC \square Other
Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to be Santa Fe Environmental Bureau office for consideration of approval.
5. X INTROTOS
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)
institution or church)
Four toot height, tour strands of barbed wire evenly spaced between one and four feet
Alternate. Please specify
Form C-144 Oil Conservation Division Page 1 of 6

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen Netting Other

Monthly inspections (If netting or screening is not physically feasible)

Signs: Subsection C of 19.15.17.11 NMAC

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.16.8 NMAC

Variances and Exceptions:

7.

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells	Yes No
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗌 Yes 🗌 No
 Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	Yes No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	Yes No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	Yes No
Below Grade Tanks	
 Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No
 Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
 Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.	🗌 Yes 🗌 No

 Within 100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes No
Temporary Pit Non-low chloride drilling fluid	
 Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No
 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, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
Permanent Pit or Multi-Well Fluid Management Pit	
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No
 Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	MAC cuments are NMAC 15.17.9 NMAC
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached.	cuments are

^{12.} <u>Permanent Pits Permit Application Checklist</u> : Subsection B of 19.15.17.9 NMAC <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the</i>	documents are
attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC	
Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC	
 Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC 	
 Nuisance or Hazardous Odors, including H₂S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization 	
Monitoring and Inspection Plan Erosion Control Plan	
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
^{13.} <u>Proposed Closure</u> : 19.15.17.13 NMAC <i>Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.</i>	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F	luid Management Pit
Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only)	
Alternative Closure Method	
 closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 	
^{15.} Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance.	rce material are Please refer to
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes □ No □ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes □ No □ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes □ No □ NA
 Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No
 Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🗌 No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	
Form C-144 Oil Conservation Division Page 4 o	6

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🗌 No
 Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🗌 No
Within an unstable area.	
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	□ Yes □ No
Within a 100-year floodplain.	
- FEMA map	
 16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards canned Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 	an. Please indicate, 11 NMAC 15.17.11 NMAC ot be achieved)
17. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ef.
Name (Print): Title:	
Signature: Date: 09/11/2018	
e-mail address: <u>dmontano@mgdrilling.com</u> Telephone: <u>505-325-6779</u>	
18. <u>OCD Approva</u> l: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	
OCD Representative Signature: Approval Date:	
Title: OCD Permit Number:	
<u>Closure Report (required within 60 days of closure completion)</u> : 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	the closure report. complete this
Closure Completion Date:	
 20. Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-lo If different from approved plan, please explain. 	op systems only)
21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please intermark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)	dicate, by a check

Oil Conservation Division

22. Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.							
Name (Print): Diane Montano	Title: Agent						
Signature: Decene Montano	Date: <u>10/31/2018</u>						
e-mail address: dmontano@mgdrilling.com	Telephone: <u>505-325-6779</u>						



Analytical Report

Report Summary

Client: M & G Drilling Chain Of Custody Number: Samples Received: 9/28/2018 3:55:00PM Job Number: 04033-0002 Work Order: P809073 Project Name/Location: Graham 53A

Walter Hinden

Date: 10/5/18

Report Reviewed By:

Walter Hinchman, Laboratory Director

Tim Cain, Project Manager

Date: 10/5/18



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise. Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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Analytical Laboratory

M & G Drilling	Project Name:	Graham 53A	
PO Box 5940	Project Number:	04033-0002	Reported:
Farmington NM, 87499	Project Manager:	Alfonzo Atencio	10/05/18 09:46

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Graham 53A	P809073-01A	Soil	09/28/18	09/28/18	Glass Jar, 4 oz.

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Page 2 of 8

M & G Drilling	Project	Name:	Grah	am 53A					
PO Box 5940	Project	Number:	0403	3-0002				Reported:	
Farmington NM, 87499	Project	Manager	Alfo	nzo Atencio				10/05/18 09:46	
		Gra	ham 53	A					
		Reporting	75-01 (50	,iiu)		a da anna anna anna anna anna anna anna	N 2010 1000 1000 1000 1000 1000 1000 100		
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1840002	10/01/18	10/03/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1840002	10/01/18	10/03/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1840002	10/01/18	10/03/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1840002	10/01/18	10/03/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1840002	10/01/18	10/03/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1840002	10/01/18	10/03/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1840002	10/01/18	10/03/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	1840002	10 01 18	10 03 18	EPA 8021B	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1840023	10/04/18	10/04/18	EPA 300.0/9056A	
Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	112	40.0	mg/kg	1	1840004	10/01/18	10/01/18	EPA 418.1	

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Physics 632-0615 (1x (505) 632-1865 Physics 75, 259 (5615 - Fr (866) 362-1879



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M & G DrillingProject Name:Graham 53APO Box 5940Project Number:04033-0002Reported:Farmington NM, 87499Project Manager:Alfonzo Atencio10/05/18 09:46

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Pacult	Reporting	Unite	Spike	Source	0 DEC	%REC	P PL)	RPD	Notes
Analyte	Kesuu	Limit	Units	Level	Kesuit	ToKEC	Limits	KPD	Limit	Notes
Batch 1840002 - Purge and Trap EPA 5030A										
Blank (1840002-BLK1)				Prepared:	10/01/18 0 A	nalyzed:	10/01/18 2			
Benzene	ND	100	ug/kg							
Toluene	ND	100								
Ethylbenzene	ND	100								
p.m-Xylene	ND	200								
o-Xylene	ND	100								
Total Xylenes	ND	100								
Total BTEX	ND	100								
Surrogate: 4-Bromochlorobenzene-PID	8260		"	8000		103	50-150			
LCS (1840002-BS1)				Prepared: 1	10/01/18 0 A	nalyzed: 1	0/01/18 2			
Benzene	5590	100	ug/kg	5000		112	70-130			
Toluene	5580	100	.0	5000		112	70-130			
Ethylbenzene	5600	100		5000		112	70-130			
p,m-Xylene	11400	200		10000		114	70-130			
o-Xylene	5540	100		5000		111	70-130			
Total Xylenes	17000	100	10	15000		113	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8280		"	8000		104	50-150			
Matrix Spike (1840002-MS1)	Soi	irce: P809069-	01	Prepared: 1	10/01/18 0 A	nalyzed: 1	0/02/18 0			
Benzene	5780	100	ug/kg	5000	ND	116	54.3-133			
Toluene	5790	100		5000	ND	116	61.4-130			
Ethylbenzene	5850	100		5000	ND	117	61.4-133			
p.m-Xylene	11900	200		10000	ND	119	63.3-131			
o-Xylene	5780	100		5000	ND	116	63.3-131			
Total Xylenes	17700	100		15000	ND	118	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8150		.,	\$000		102	50-150			
Matrix Spike Dup (1840002-MSD1)	Sou	irce: P809069-6	01	Prepared: 1	10/01/18 0 A	nalyzed: 1	0/02/18 0			
Benzene	5110	100	ug/kg	5000	ND	102	54.3-133	12.3	20	
Toluene	5100	100		5000	ND	102	61.4-130	12.7	20	
Ethylbenzene	5130	100		5000	ND	103	61.4-133	13.2	20	
p,m-Xylene	10500	200		10000	ND	105	63.3-131	12.9	20	
o-Xylene	5060	100		5000	ND	101	63.3-131	13.1	20	
Total Xylenes	15600	100		15000	ND	104	63.3-131	13.0	20	
Surrogate: 4-Bromochlorobenzene-PID	8170		"	8000		102	50-150			

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	Anions by 300.0/90	056A - Quality Control	
Farmington NM, 87499	Project Manager:	Alfonzo Atencio	10/05/18 09:46
PO Box 5940	Project Number:	04033-0002	Reported:
M & G Drilling	Project Name:	Graham 53A	

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1840023 - Anion Extraction EPA	300.0/9056A									
Blank (1840023-BLK1)				Prepared &	Analyzed:	10/04/18 0				
Chloride	ND	20.0	mg/kg							
LCS (1840023-BS1)				Prepared &	Analyzed:	10/04/18 0				
Chloride	259	20.0	mg/kg	250		103	90-110			
Matrix Spike (1840023-MS1)	Source	e: P810008-	01	Prepared &	Analyzed:	10/04/18 0				
Chloride	653	20.0	mg/kg	250	378	110	80-120			
Matrix Spike Dup (1840023-MSD1)	Source	e: P810008-	01	Prepared: 1	0/04/18 0 A	Analyzed: 1	0/04/18 1			
Chloride	622	20.0	mg/kg	250	378	97.8	80-120	4.87	20	

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Page 5 of 8

M & G Drilling	Proje	ct Name:	G	raham 53A						
PO Box 5940	Proje	et Number:	0.	4033-0002					Report	ed:
Farmington NM, 87499	Proje	et Manager:	A	lfonzo Atenci	io				10/05/18	09:46
	Total Petroleu	m Hydrod	arbons	by 418.1 -	Quality	Control				
	Env	virotech A	Analyti	cal Labor	atory					
Analyte	Pagult	Reporting	Caita	Spike	Source	0. DEC	%REC	PDD	RPD	Natas
Analyte	Restitt	Linin	Units	Level	Result	ZONEL	Linnis	KFD	Limit	Notes
Batch 1840004 - 418 Freon Solid Extract	ion									
Blank (1840004-BLK1)				Prepared &	Analyzed:	10/01/18 1				
Total Petroleum Hydrocarbons	ND	40.0	mg/kg							
LCS (1840004-BS1)				Prepared &	Analyzed:	10/01/18 1				
Total Petroleum Hydrocarbons	944	40.0	mg/kg	1000		94.4	80-120			
Matrix Spike (1840004-MS1)	Sourc	e: P809073-	01	Prepared &	Analyzed:	10/01/18 1				
Total Petroleum Hydrocarbons	1140	40.0	mg/kg	1000	112	102	70-130			
Matrix Spike Dup (1840004-MSD1)	Sourc	e: P809073-	01	Prepared &	Analyzed:	10/01/18 1				
Total Petroleum Hydrocarbons	1100	40.0	mg/kg	1000	112	99.2	70-130	2.86	30	

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M & G Drilling	Project Name:	Graham 53A	
PO Box 5940	Project Number:	04033-0002	Reported:
Farmington NM, 87499	Project Manager:	Alfonzo Atencio	10/05/18 09:46

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

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												P	age	- of F
Client: MEG Divising Report Attention		Lab Use Only						TAT	TAT EPA Program					
Project: GRAHAM 53A Report due by:		Lab	WO#	+	12.14	Job	Nun	nber	la g	1D 3	D I	RCRA	CWA	SDW
Project Manager: AIFONSO ATENCO Attention:		Po	1090	073		OLI	033	-00	22					
Address: PO BOX 5940 Address:					ŀ	Analy	sis ar	nd Me	etho	d			Sta	ate
City, State, Zip Farmington NM 87499 City, State, Zip		15	5										NM CO	UTA
Phone: 720 556 0810 Phone:		801	801	-			0							
mail: Ggtencioe questoffice met Email:		O by	0 by	802	3260	010	300	-					X	
Time Date Matrix No Containers Sampled Date Sampled	Lab Number	DRO/OR	GRO/DR	BTEX by	voc by 8	Metals 6	Chloride	TPH 418					Rem	narks
1/510 9/28 SI GRELAN 534				X			X	X					1403	
				1			-	-					- Jack	
Additional Instructions: VIS ice in cooler	•	1				Kample								
time of collection is considered fraud and may be grounds for legal action. Sampled by:	TEWCIO	, date o	r	_		receive	ed packe	d in ice a	it an avj	g temp abo	ove 0 but l	ess than 6°	C on subsequent	days.
Relinquished by: (Signature) $\frac{Date}{1/22}/18$ $\frac{Time}{15!55}$ Received by: (Signature)	Date 9/28/	18	Time	.5	5	Rec	eive	d on	ice:	Lab	Use / N	Only		
Relinquished by: (Signature) Date Time Received by: (Signature)	Date		Time			T1 AVC	G Ter	mp °(c	<u>T2</u>			<u>T3</u>	1157- 1157-1
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous sa	Containe amples will be re	er Typ turned	e: g -	glas	s, p - dispo	poly sed of	/plas	tic, a	g - ar	nber g	lass, v e report	r - VOA	analysis of th	e above
envirotech	v is limited to the	e amou	int paid	d for	on the	Phicago	rt.	15 Eule	051623	1865			4.4	antipatash
	Street Suite 116 Down		201			PH (505)	360.00	IS TRUS	001032-	1903				earneitech-t



Analytical Report

Report Summary

Client: M & G Drilling Chain Of Custody Number: Samples Received: 10/18/2018 3:43:00PM Job Number: 04033-0002 Work Order: P810094 Project Name/Location: Graham 53A

Report Reviewed By:

Draft

Walter Hinchman, Laboratory Director

Draft

Date: 10/19/18

Tim Cain, Project Manager



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise. Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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M & G Drilling	Project Name:	Graham 53A	
PO Box 5940	Project Number:	04033-0002	Reported:
Farmington NM, 87499	Project Manager:	Alfonzo Atencio	10/19/18 11:17

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Graham 53A	P810094-01A	Soil	10/18/18	10/18/18	Glass Jar, 4 oz.

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M & G Drilling	Project	Name:	Grah	am 53A									
PO Box 5940	Project	Number:	0403	3-0002				Reported:					
Farmington NM, 87499	Project	Manager:	Alfonzo Atencio					10/19/18 11:	17				
		Gr: P8100	aham 53 94-01 (Se	A olid)									
		Reporting											
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes				
Nonhalogenated Organics by 8015													
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842026	10/19/18	10/19/18	EPA 8015D					
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1842028	10/19/18	10/19/18	EPA 8015D					
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1842028	10/19/18	10/19/18	EPA 8015D					
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.0 %	50	-150	1842026	10/19/18	10 19 18	EPA 8015D					
Surrogate: n-Nonane		126 %	50	-200	1842028	10-19-18	10 19 18	EPA 8015D					

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M & G Drilling	Project Name:	Graham 53A	
PO Box 5940	Project Number:	04033-0002	Reported:
Farmington NM, 87499	Project Manager:	Alfonzo Atencio	10/19/18 11:17
	Notes and I	Definitions	
DET Analyte DETECTED			

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference

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

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Project Informat	on			Chain of Co	ustody				1							F	age	0
Client: Ma	5			Report Attention		Lab Use Only						P.L.		TAT E			PA Program	
Project: GA	zahan	n 53	A	Report due by:		Lab	WO	#		Job Number				1D 3D		RCRA	CWA	SD
Project Manager	: AIF	tons u	ATENE U	Attention:		P8	S HO	qu	12.40	間の	102	340	282	X				
Address:				Address:					ŀ	analys	sis ar	nd Me	etho	ł			Sta	ate
City, State, Zip				City, State, Zip		015	015										NM CO	UT
Phone: 720	556	08	10	Phone:		oy 8(oy 8(51	0	0	0.0						M	
Email: Kouse In	~7 64	eic	lovel. Com	Email:		RO	ROI	y 80	826	601	le 30	8.1					Λ	
Time Date Sampled Sampled	Matrix	No Containers	Sample ID		Lab Number	DRO/O	GRO/D	BTEX b	voc by	Metals	Chlorid	TPH 41					Ren	narks
9/554 10/18	5	1	GRAHAM	534		X	X	1										
7																		
					T-Aby													
															+			
															1			
Additional Instru	uctions:	Vis.i	e in coole	ev - m	and Provide Links									1				
, (field sampler), attest to	the validity ar	nd authenticity	of this sample. I am a	ware that tampering with or intentionally mistabelling the	sample tocation	n, date	or			Samples	s requiri	ing them d in ice a	nal present an avg	ervation n temp abo	nust be r	received on it	e the day they a	are sam nt days.
telinguished by: (Sig	nature)	Date	Time	Received by: Received by: (Signature)	Date	18	Time	247	2				53	Lat	Use	Only		
Relinquished by: (Sig	(nature)	Date	Time	Received by: (Signature)	Date	.0	Time			Rece T1	eive	d on	ice:	T2		V	<u>T3</u>	
ample Matrix 6 Call	Cd Calid (Sa Shudaa d	A 4 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9		Containe	r Tur	0: 7	alac		AVG	n lac	tic o		ther a	lace	V. VOA		Help-k
Note: Samples are disc	arded 30 da	ys after resu	its are reported unl	ess other arrangements are made. Hazardous sar	nples will be re	eturne	d to cli	ient or	r dispo	sed of	at the	e client	t expe	nse. Th	ne repo	ort for the	analysis of	the at
	,						Sint po		5	- cpoi								
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