

# **Analytical Report**

**Report Summary** 

Client: M & G Drilling

Chain Of Custody Number:

Samples Received: 8/5/2015 4:18:00PM

Job Number: 04033-0002 Work Order: P508006

Project Name/Location: Marron 42

Entire Report Reviewed By:

Date:

8/12/15

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

Tim Cain, Laboratory Manager





M & G Drilling

PO Box 5940

Farmington NM, 87499

Project Name:

Marron 42

Project Number: Project Manager: 04033-0002 David Hinson Reported:

12-Aug-15 08:07

## **Analyical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Marron 42	P508006-01A	Aqueous	08/05/15	08/05/15	Poly 500mL





M & G Drilling

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Farmington NM, 87499

Project Name:

Marron 42

Project Number: Project Manager: 04033-0002 David Hinson

Reported:

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### Marron 42 P508006-01 (Water)

		Reporting							}
Analyte	Result	Limit	Units	Dilution	Dilution Batch Prepare		Prepared Analyzed		Notes
Cation/Anion Analysis									
рН @25°C	10.1		pH Units	1	1532012	08/06/15 10:09	08/06/15 10:09	150.1/4500H	H2
Electrical Conductivity	1090		umhos/cm	1	1532012	08/06/15 10:09	08/06/15 10:09	EPA 120.1	H2
Total Dissolved Solids	664	10.0	mg/L	1	1533002	08/10/15	08/10/15	160.1/2540C	
Sodium Absorption Ratio	56.2		N/A	1	1533007	08/10/15	08/10/15	[CALC]	
Total Alkalinity as CaCO3	140	10.0	mg/L	1	1532013	08/06/15	08/06/15	Hach Method 8203	
Total Hardness as CaCO3	3.88	0.07	mg/L		[CALC]	08/07/15	08/07/15	[CALC]	
Bicarbonate as CaCO3	ND	10.0	mg/L	1	1532013	08/06/15	08/06/15	Hach Method 8203	
Carbonate as CaCO3	120	10.0	mg/L	I	1532013	08/06/15	08/06/15	Hach Method 8203	
Hydroxide as CaCO3	20.0	10.0	mg/L	1	1532013	08/06/15	08/06/15	Hach Method 8203	
Nitrate-N	ND	0.20	mg/L	2	1532019	08/07/15 10:41	08/07/15 14:47	EPA 300.0	H2
Nitrite-N	ND	0.20	mg/L	2	1532019	08/07/15 10:41	08/07/15 14:47	EPA 300.0	H2
Chloride	66.7	2.00	mg/L	2	1532019	08/07/15	08/07/15	EPA 300.0	
Fluoride	8.15	0.20	mg/L	2	1532019	08/07/15	08/07/15	EPA 300.0	
o-Phosphate	ND	1.00	mg/L	2	1532019	08/07/15 10:41	08/07/15 14:47	EPA 300.0	H2
Sulfate	252	4.00	mg/L	2	1532019	08/07/15	08/07/15	EPA 300.0	
Iron	0.30	0.01	mg/L	1	1532018	08/07/15	08/07/15	EPA 6010C	
Calcium	1.38	0.01	mg/L	1	1532018	08/07/15	08/07/15	EPA 6010C	
Magnesium	0.11	0.01	mg/L	1	1532018	08/07/15	08/07/15	EPA 6010C	
Potassium	0.94	0.01	mg/L	1	1532018	08/07/15	08/07/15	EPA 6010C	
Sodium	255	0.01	mg/L	1	1532018	08/07/15	08/07/15	EPA 6010C	





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### Cation/Anion Analysis - Quality Control

### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1532019 - Anion Extraction EPA 300.0					<del></del>			<u>.</u>		
Blank (1532019-BLK1)				Prepared &	Analyzed	07-Aug-15	5			
Nítrate-N	ND	0.10	mg/L				-			
Nitrite-N	ND	0.10	"							
Chloride	ND	1.00								
Fluoride	ND	0.10	•							
o-Phosphate	ND	0.50	"							
Sulfate	ND	2.00	•							
LCS (1532019-BS1)				Prepared &	: Analyzed:	07-Aug-15				
Nitrate-N	4.84	0.10	mg/L	5.00		96.8	90-110			
Nitrite-N	5.01	0.10		5.00		100	90-110			
Chloride	49.2	1.00	,,	50.0		98.5	90-110			
Fluoride	4.95	0.10	*	5.00		99.0	90-110			
o-Phosphat <del>e</del>	24.2	0.50	**	25.0		97.0	90-110			
Sulfate	48.9	2.00	**	50.0		97.8	90-110			
Matrix Spike (1532019-MS1)	Sou	Source: P508006-01			Analyzed:	07-Aug-15				
Nitrate-N	9.91	0.20	mg/L	10.0	ND	99.1	80-120			
Nitrite-N	10.3	0.20	~	0.01	ND	103	80-120			
Chloride	167	2.00	**	100	66.7	100	80-120			
Fluoride	18.2	0.20	**	10.0	8.15	100	80-120			
p-Phosphate	49.6	1.00		50.0	ND	99.2	80-120			
Sulfate	349	4.00	"	100	252	97.8	80-120			
Matrix Spike Dup (1532019-MSD1)	Sour	ce: P508006-0	1	Prepared &	Analyzed:	07-Aug-15				
Nitrate-N	9,91	0.20	mg/L	10.0	ND	99.1	80-120	0.0202	20	
Nitrite-N	10.3	0.20		10.0	ND	103	80-120	0.485	20	
hloride	167	2.00		100	66.7	101	80-120	0.213	20	
luoride	18.2	0.20	**	10.0	8.15	101	80-120	0.209	20	
-Phosphate	49.6	1.00	**	50.0	ND	99.1	80-120	0.0968	20	
Sulfate	350	4.00		100	252	98.0	80-120	0.0664	20	





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Marron 42

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Project Number:

04033-0002

Reported:

Farmington NM, 87499

Project Manager:

David Hinson

12-Aug-15 08:07

#### **Notes and Definitions**

H2 Sa

Sample was analyzed after regulatory hold-time exceeded for target analyte.

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

Client: M+G Drilling	RUSH? Lab Use Only					Analysis and Method							ab O	nly	
Project: Maryon 42				1d Lab WO#						T			T		\$
Sampler:			3d	P508	V00										(5)
Phone: 505 330 7107	2	1	<del></del>	Jol	6 Number 33 - 000 2	015			0.0	Ē				ab Number	rsr
Email(s):	, , , , , , , , , , , , , , , , , , , ,			0403	33-0002	by 8015	)21	8.1	y 30(	至			1	Ž	int/i
Project Manager: DAUID HINSON			Page	e of			× 8€	/ 418	Je b	, us				lab	ا تا
Sample ID	Sample Date	Sample Time	Matrix		italners 'PE/Preservative	GRO/DRO	BTEX by 8021	TPH by 418.1	Chloride by 300.0	Cation/Anim			i.		Correct Cont/Prsrv (s) Y/N
MANNON 42	8.5.15	12:15	na	500mlp	oly/Cool/1					$\sqrt{\ }$			-	1	Y
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Relinquished by: (Signature) Date Time Tenny HINSON 8.5:15 4.15p	Received	WY: (SIRNE	acure)	8/5/15	4:187.4	**000	المرزاد	on I			se Only				
Relinquished by: (Signature) Date Time		by: (Signa		Date	Time	T1 <u>5.</u> AVG T			T2_	·/: 14·	 		Т3		_
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	<u> </u>	Container Typ		-	**********	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	stic, a	ag - amk	er glass	s, v - \	VOA				
**Samples requiring thermal preservation must be received on ice the day	they are sampled				bove 0 but less th										
Sample(s) dropped off after hours to a secure drop off area.		Chain c	of Custody	y Notes/Billin	ng info:										

