### Martha AIK Federal #1 Tin Horn

Analytical Area   1/2/2014   H400014   Grab/Backhoe   2°   ND		Comple Area	oto C clamo	Analytical	Sample Type	Denth	RTEX	GRO	DRO	TOTAL	Chlorides
Release Area         1/12/2014         H400014         Grab/Backhoe         2         ND           Release Area         1/12/2014         H400014         Grab/Backhoe         3'         ND           Release Area         1/12/2014         H400014         Grab/Backhoe         3'         ND           Release Area         1/12/2014         H400014         Grab/Backhoe         5'         ND           Release Area         2/10/2014         H400042         Grab/Backhoe         5'         ND           Release Area         2/10/2014         H400425         Grab/Backhoe         7'         ND           Release Area         2/10/2014         H400425         Grab/Backhoe         7'         ND           Release Area         3/3/2015         H500622         Grab/Backhoe         7'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -	I UNIOO LIF	Sample Alea		1400044	Grah/Rackhoe		CN	S	CZ	CZ	4.800
Release Area         1/12/2014         H400014         Grab/Backhoe         3         NO           Release Area         1/12/2014         H400014         Grab/Backhoe         4         ND           Release Area         1/12/2014         H400014         Grab/Backhoe         4         ND           Release Area         1/12/2014         H400014         Grab/Backhoe         7         -           Release Area         2/10/2014         H400045         Grab/Backhoe         7         -           Release Area         2/10/2014         H4000425         Grab/Backhoe         7         -           Release Area         3/10/2014         H4000425         Grab/Backhoe         7         -           Release Area         3/10/2014         H4000425         Grab/Backhoe         7         -           Release Area         3/10/2015         H500620         Grab/Backhoe         7         -	TH COMP 1	Kelease Area		1400014	Grab/Backlide	- 6	2 2	2 2	2 2	S CN	6,640
Release Area         1/12/2014         H000014         Grab/Backhoe         4°         NO           Release Area         1/12/2014         H000014         Grab/Backhoe         4°         NO           Release Area         1/12/2014         H000014         Grab/Backhoe         5°         NO           Release Area         2/10/2014         H000025         Grab/Backhoe         6°         -           Release Area         2/10/2014         H000425         Grab/Backhoe         6°         -           Release Area         2/10/2014         H000425         Grab/Backhoe         7°         -           Release Area         3/3/2015         H600620         Grab/Backhoe         7°         - <tr< td=""><td>TH COMP 2</td><td>Kelease Area</td><td></td><td>1400014</td><td>Grab/Backlide</td><td>4 6</td><td>2 2</td><td>S</td><td>S</td><td>CN CN</td><td>7.280</td></tr<>	TH COMP 2	Kelease Area		1400014	Grab/Backlide	4 6	2 2	S	S	CN CN	7.280
Release Area         1/12/20/4         H400014         Grab/Backhoe         57         ND           Release Area         1/12/20/4         H400014         Grab/Backhoe         57         ND           Release Area         2/10/20/4         H4000425         Grab/Backhoe         67         ND           Release Area         2/10/20/4         H400425         Grab/Backhoe         67         ND           Release Area         2/10/20/4         H400425         Grab/Backhoe         87         -           Release Area         3/10/20/5         H500620         Grab/Backhoe         7         - <t< td=""><td>TH COMP 3</td><td>Kelease Area</td><td></td><td>1400014</td><td>Grab/Backlide</td><td>2 4</td><td>2 2</td><td>Q CZ</td><td>S</td><td>S</td><td>4 160</td></t<>	TH COMP 3	Kelease Area		1400014	Grab/Backlide	2 4	2 2	Q CZ	S	S	4 160
Release Area         1/12/20/14         H400014         Grab/Backhoe         0         NO           Release Area         1/12/20/14         H4000425         Grab/Backhoe         7         -           Release Area         2/10/20/14         H4000425         Grab/Backhoe         7         -           Release Area         2/10/20/14         H4000425         Grab/Backhoe         7         -           Release Area         3/10/20/14         H4000425         Grab/Backhoe         7         -           Release Area         3/10/20/15         H500620         Grab/Backhoe         7         -	TH COMP 4	Kelease Area		1400014	Glab/Dacking	t ū		2	2 2	2 2	1 240
Release Area         2/10/2014         H-00/425         Grab/Backhoe         7           Release Area         2/10/2014         H-00/425         Grab/Backhoe         7           Release Area         2/10/2014         H-00/425         Grab/Backhoe         8         -           Release Area         2/10/2014         H-00/425         Grab/Backhoe         8         -           Release Area         3/3/2015         H-00/0622         Grab/Backhoe         1         ND           Release Area         3/3/2015         H-00/0620         Grab/Backhoe         7         -           Release Area	TH COMP 5	Release Area		H400014	Grab/Backhoo	0 4	2 2	2 2	2 2	2 2	4 800
Release Area         27/0/2014         H400425         Grab/Backhoe         7           Release Area         27/0/2014         H400425         Grab/Backhoe         9         -           Release Area         3/3/2014         H400425         Grab/Backhoe         9         -           Release Area         3/3/2015         H500620         Grab/Backhoe         3         -           Release Area	TH COMP 6	Kelease Area		4100011	Grab/Dacking	7 0	ON	2		Q.	000,4
Release Area         27/0/2014         H400425         Grab/Backhoe         8'         -           Sample Area         Sample Date         Report         Sample Type         Depth         BTEX           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         - <trr< td=""><td>TH COMP 7'</td><td>Release Area</td><td></td><td>H400425</td><td>Grab/Backnoe</td><td>,</td><td></td><td></td><td></td><td></td><td>0,000</td></trr<>	TH COMP 7'	Release Area		H400425	Grab/Backnoe	,					0,000
Release Area         3/3/2015         H400425         Grab/Backhoe         9         -           Release Area         3/3/2015         H500620         Grab/Backhoe         11         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         17         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         7         -           Rel	TH COMP 8'	Release Area		H400425	Grab/Backhoe			,	1		8,130
Sample Area         Sample Date         Analytical         Sample Type         Depth         BTEX           Release Area         3/3/2015         H500620         Grab/Backhoe         3'         -         -           Release Area         3/3/2015         H500620         Grab/Backhoe         3'         -         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7' <td>TH COMP 9'</td> <td>Release Area</td> <td></td> <td>H400425</td> <td>Grab/Backnoe</td> <td>6</td> <td></td> <td>-</td> <td></td> <td>######################################</td> <td>0,100</td>	TH COMP 9'	Release Area		H400425	Grab/Backnoe	6		-		######################################	0,100
Sample Area         Sample Date         Report         Sample Type         Depth         BTEX           Release Area         3/3/2015         H500622         GrabBackhoe         1''         ND           Release Area         3/3/2015         H500620         GrabBackhoe         5''         -           Release Area         3/3/2015         H500620         GrabBackhoe         5''         -           Release Area         3/3/2015         H500620         GrabBackhoe         7''         -				Analytical							
Release Area         3/3/2015         H500622         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         3'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND	1	Sample Area	Sample Date	Report	Sample Type	Depth	BTEX	GRO	_	TOTAL	Chlorides
Release Area         3/3/2015         H500620         Grab/Backhoe         7         -           Release Area         3/3/2015         H500620         Grab/Backhoe         11         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         17         -           Release Area         3/3/2015         H500620         Grab/Backhoe         17         ND           Re	TH 1-1	Release Area	3/3/2015	H500622	Grab/Backhoe	1,	QN	QN	g	ΩN	Q
Release Area         3/3/2015         H500620         Grab/Backhoe         77         -           Release Area         3/3/2015         H500620         Grab/Backhoe         77         -           Release Area         3/3/2015         H500620         Grab/Backhoe         77         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         1         -           Rel	TH 1-3	Release Area	3/3/2015	H500620	Grab/Backhoe	3,	,	,			2
Release Area         3/3/2015         H500620         Grab/Backhoe         7'           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           \$ <	TH 1-5	Release Area	3/3/2015	H500620	Grab/Backhoe	5,					2
Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -	TH 1-7	Release Area	3/3/2015	H500620	Grab/Backhoe	7'			1		Q
Release Area         3/3/2015         H500622         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         3'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -	TH 1-9	Release Area	3/3/2015	H500620	Grab/Backhoe	9,					QN
S. Cer.         Release Area         3/3/2015         H500620         Grab/Backhoe         3'            Release Area         3/3/2015         H500620         Grab/Backhoe         5'            Release Area         3/3/2015         H500620         Grab/Backhoe         5'            Release Area         3/3/2015         H500620         Grab/Backhoe         1'            Release Area         3/3/2015         H500620         Grab/Backhoe         1'            Release Area         3/3/2015         H500620         Grab/Backhoe         3'            Release Area         3/3/2015         H500620         Grab/Backhoe         5'            Release Area         3/3/2015         H500620         Grab/Backhoe         7'            Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         1'            Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         1'	, O. I.I.	Con A cocolo	2/2/2015	HEODROS	Grah/Rackhoa		CN	QN	QN	QN	QN
Release Area   3/3/2015   H500620 Grab/Backhoe   57	1-7 LI	חבובים אומם	3/3/2013	1500620	Grab/Backhoe	- 7					64
Release Area         3/3/2015         H500620         Grab/Backhoe         7         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7         -           Release Area         3/3/2015         H500620         Grab/Backhoe         11'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         11'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND	STE LEGINING STORY	Kelease Area	3/3/2013	0200020	Grab/Bockhoo	ס נֿנ					160
Release Area         3/3/2015         H500620         Grab/Backhoe         7         -           Release Area         3/3/2015         H500620         Grab/Backhoe         11'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         3'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -	TH 2-5	Release Area	3/3/2015	Hannes	Grab/backiloe	10					592
Release Area         3/3/2015         H500620         Grab/Backhoe         11'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         3'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         11'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND      <	1H 2-7	Release Alea	3/3/2013	0200020	Crab/Backhoo	ò				,	4.560
Release Area         3/3/2015         H500620         Grab/Backhoe         1''         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         7''         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7''         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7''         -           Release Area         3/3/2015         H500620         Grab/Backhoe         11'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         11'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1''         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         7''         -	8-Z H I	Kelease Area	3/3/2013	0200001	Orab/Dockhoo	-++			1		1 550
Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         3'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         11'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         17'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         17'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -	TH 2-11	Kelease Area	3/3/2015	HDOODEN	GI ab/ Dacki loe		OPERATE CONTRACTORS	Special media	STATE STATE OF		0001
Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         11'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         13'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -	TH 3-1	Release Area	3/3/2015	H500620	Grab/Backhoe	1,	Q	Q	Q	ND	352
Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         11'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         13'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         13'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -	TH 3-3	Release Area	3/3/2015	H500620	Grab/Backhoe	3,				1	176
Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         11'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         3'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -	TH 3-5	Release Area	3/3/2015	H500620	Grab/Backhoe	5,		1		1	128
Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         11'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -	TH 3-7	Release Area	3/3/2015	H500620	Grab/Backhoe	7'		•	,	1	208
Release Area         3/3/2015         H500620         Grab/Backhoe         11'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         3'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -	TH 3-9	Release Area	3/3/2015	H500620	Grab/Backhoe	ъ	-		,	T	11,600
Release Area         3/3/2015         H500620         Grab/Backhoe         13'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -	TH 3-11	Release Area	3/3/2015	H500620	Grab/Backhoe	11,		,	1	E	13,900
Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         3'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Release Area         12/17/2015         H500620         Grab/Backhoe         9'         -	TH 3-13	Release Area	3/3/2015	H500620	Grab/Backhoe	13'					10,700
Release Area         3/3/2015         H500620         Grab/Backhoe         3'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         3'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Sample Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         15'         -	COLUMNIC CONTROL OF THE ALT	Release Area	3/3/2015	H500620	Grab/Backhoe	-	9	Q.	2	QN	QN
Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         3'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         3'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Sample Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Sample Area         12/17/2015         H500620         Grab/Backhoe         9'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         15'         -	TH 4-3	Release Area	3/3/2015	H500620	Grab/Backhoe	3.	-	,		-	112
Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Release Area         3/3/2015         H500622         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Sample Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Release Area         12/17/2015         H500620         Grab/Backhoe         9'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         15'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         25'         - <t< td=""><td>TH 4-5</td><td>Release Area</td><td>3/3/2015</td><td>H500620</td><td>Grab/Backhoe</td><td>5'</td><td>-</td><td></td><td></td><td></td><td>432</td></t<>	TH 4-5	Release Area	3/3/2015	H500620	Grab/Backhoe	5'	-				432
Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Release Area         3/3/2015         H500622         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Analytical         Analytical         Analytical         BTEX         -           Sample Area         12/17/2015         1512A73         Grab/Core Rig         15'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         20'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         25'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         25'         -           Rele	TH 4-7	Release Area	3/3/2015	H500620	Grab/Backhoe	7'	-	1	,	1	4,880
Release Area         3/3/2015         H500622         Grab/Backhoe         1'         ND           Release Area         3/3/2015         H500620         Grab/Backhoe         3'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Analytical         Analytical         Analytical         BTEX           Release Area         12/17/2015         1512A73         Grab/Core Rig         15'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         20'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         25'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         25'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         25'         -	TH 4-9	Release Area	3/3/2015	H500620	Grab/Backhoe	9,	-				7,760
Release Area         3/3/2015         H500620         Grab/Backhoe         3'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Analytical         Analytical         Analytical         BTEX           Release Area         12/17/2015         1512A73         Grab/Core Rig         15'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         20'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         25'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         25'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         25'         -	TH 5.1	Release Area	3/3/2015	H500622	Grab/Backhoe	-	Q	Q	S	QN	144
Release Area         3/3/2015         H500620         Grab/Backhoe         5'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Analytical         Analytical         Brelease Area         12/17/2015         Analytical         BTEX           Release Area         12/17/2015         1512A73         Grab/Core Rig         15'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         20'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         20'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         25'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         25'         -	TH 5-3	Release Area	3/3/2015	H500620	Grab/Backhoe	3		,		-	32
Release Area         3/3/2015         H500620         Grab/Backhoe         7'         -           Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Sample Area         Sample Date         Report         Sample Type         Depth         BTEX           Release Area         12/17/2015         1512A73         Grab/Core Rig         15'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         20'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         25'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         25'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         25'         -	TH 5-5	Release Area	3/3/2015	H500620	Grab/Backhoe	5,	-	•		T.	4,720
Release Area         3/3/2015         H500620         Grab/Backhoe         9'         -           Sample Area         Sample Date         Report         Sample Type         Depth         BTEX           Release Area         12/17/2015         1512A73         Grab/Core Rig         15'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         20'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         25'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         25'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         25'         -	TH 5-7	Release Area	3/3/2015	H500620	Grab/Backhoe	7.		-		1	2,960
Sample Area         Sample Date         Report         Sample Type         Depth         BTEX           Release Area         12/17/2015         1512A73         Grab/Core Rig         15'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         20'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         25'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         25'         -	TH 5-9	Release Area	3/3/2015	H500620	Grab/Backhoe	.6	-			1	6,800
Sample Area         Sample Date         Report         Sample Type         Depth         BTEX           Release Area         12/17/2015         1512A73         Grab/Core Rig         15'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         20'         -           Release Area         12/17/2015         1512A73         Grab/Core Rig         25'         -           Release Area         12/17/2015         15/12A73         Grab/Core Rig         25'         -				Analytical	s and the second control of the second control of the second of the seco		Sectional designation of the section	Self-to-Control of the control of th			
Release Area   12/17/2015   1512A73   Grab/Core Rig   15'   -		Sample Area	Sample Date	Report	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Release Area   12/17/2015   1512A73   Grab/Core Rig   20' -     Release Area   12/17/2015   1512A73   Grab/Core Rig   25' -     Release Area   12/17/2015   1512A73   Grab/Core Rig   29' -	15'	Release Area	12/17/2015	1512A73	Grab/Core Rig	15'	-	ı	ı	8	730
Release Area 12/17/2015 1512A73 Grab/Core Rig 25' - Release Area 12/17/2015 1512A73 Grab/Core Rig 29' -	20,	Release Area	12/17/2015	1512A73	Grab/Core Rig	20,		,	1	r	1,000
Release Area   12/17/2015   1512A73   Grab/Core Rig	25'	Release Area	12/17/2015	1512A73	Grab/Core Rig	25'			ı		1,200
	29'	Release Area	12/17/2015	1512A73	Grab/Core Rig	29.	-	ı,	e e	-	320

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 150', Section 11-22S-31E, per Trend Map).

All results are ppm.Chlorides for documentation.

Released: 100 B/PW, 1 B/O; Recovered: 50 B/PW, 0 B/O. Release Date: 12/3/2013. 2RP-2113



12/3/2013 Release

January 09, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: MARTHA AIK FEDERAL #1 (TIN HORN)

Enclosed are the results of analyses for samples received by the laboratory on 01/03/14 10:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celes D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

Γo: (505) 748-4635

Received:

01/03/2014

Sampling Date:

01/02/2014

Reported:

01/09/2014

Sampling Type:

Soil

Project Name:

MARTHA AIK FEDERAL #1 (TIN HORN)

Sampling Condition:

Cool & Intact

Project Number:

30-015-26549

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

### Sample ID: TH COMP 1' (H400014-01)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/07/2014	ND	1.85	92.7	2.00	2.58	
Toluene*	<0.050	0.050	01/07/2014	ND	1.81	90.6	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/07/2014	ND	1.77	88.6	2.00	2.57	
Total Xylenes*	<0.150	0.150	01/07/2014	ND	5.13	85.4	6.00	2.62	
Total BTEX	<0.300	0.300	01/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 89.4-12	6						
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2014	ND	213	107	200	1.63	
DRO >C10-C28	<10.0	10.0	01/04/2014	ND	212	106	200	3.24	
Surrogate: 1-Chlorooctane	95.1	% 65.2-14	0			-			
Surrogate: 1-Chlorooctadecane	94.4	% 63.6-15	4						

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\*=Accredited Analyte

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YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:

01/03/2014

Sampling Date:

01/02/2014

Reported:

01/09/2014

Sampling Type:

Soil

Project Name:

MARTHA AIK FEDERAL #1 (TIN HORN)

Sampling Condition:

Cool & Intact

Project Number:

30-015-26549

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: TH COMP 2' (H400014-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/07/2014	ND	1.85	92.7	2.00	2.58	
Toluene*	<0.050	0.050	01/07/2014	ND	1.81	90.6	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/07/2014	ND	1.77	88.6	2.00	2.57	
Total Xylenes*	<0.150	0.150	01/07/2014	ND	5.13	85.4	6.00	2.62	
Total BTEX	<0.300	0.300	01/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2014	ND	213	107	200	1.63	
DRO >C10-C28	<10.0	10.0	01/04/2014	ND	212	106	200	3.24	
Surrogate: 1-Chlorooctane	95.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	93.2	% 63.6-15	4						

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YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Ta

01/03/2014

Sampling Date:

pling Date: 01/02/2014 pling Type: Soil

Reported: 01/09/2014 Sampling Type:
Project Name: MARTHA AIK FEDERAL #1 (TIN HORN) Sampling Condition:

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

Project Number: 30-015-26549
Project Location: EDDY COUNTY, NM

### Sample ID: TH COMP 3' (H400014-03)

Received:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/07/2014	ND	1.85	92.7	2.00	2.58	
Toluene*	<0.050	0.050	01/07/2014	ND	1.81	90.6	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/07/2014	ND	1.77	88.6	2.00	2.57	
Total Xylenes*	<0.150	0.150	01/07/2014	ND	5.13	85.4	6.00	2.62	
Total BTEX	<0.300	0.300	01/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 89.4-12	6	a allumines					
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2014	ND	213	107	200	1.63	
DRO >C10-C28	<10.0	10.0	01/04/2014	ND	212	106	200	3.24	
Surrogate: 1-Chlorooctane	92.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	92.9	% 63.6-15	4						

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YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:

01/03/2014

Sampling Date:

01/02/2014

Reported:

01/09/2014

Sampling Type:

Soil

Project Name:

MARTHA AIK FEDERAL #1 (TIN HORN)

Sampling Condition:

Cool & Intact

Project Number:

30-015-26549

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: TH COMP 4' (H400014-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/07/2014	ND	1.85	92.7	2.00	2.58	
Toluene*	<0.050	0.050	01/07/2014	ND	1.81	90.6	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/07/2014	ND	1.77	88.6	2.00	2.57	
Total Xylenes*	<0.150	0.150	01/07/2014	ND	5.13	85.4	6.00	2.62	
Total BTEX	<0.300	0.300	01/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 89.4-120	6						
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/06/2014	ND	212	106	200	3.32	
DRO >C10-C28	<10.0	10.0	01/06/2014	ND	207	103	200	2.78	
Surrogate: 1-Chlorooctane	104 9	% 65.2-140	0						
Surrogate: 1-Chlorooctadecane	98.4	% 63.6-15-	4						

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Received:

01/03/2014

Sampling Date:

01/02/2014

Reported:

01/09/2014

Sampling Type:

Soil

Project Name:

MARTHA AIK FEDERAL #1 (TIN HORN)

Sampling Type.

- I A T

Project Number:

30-015-26549

Sampling Condition:

Cool & Intact

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

### Sample ID: TH COMP 5' (H400014-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/07/2014	ND	2.10	105	2.00	1.72	
Toluene*	<0.050	0.050	01/07/2014	ND	2.10	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	01/07/2014	ND	2.16	108	2.00	1.93	
Total Xylenes*	<0.150	0.150	01/07/2014	ND	6.23	104	6.00	0.713	
Total BTEX	<0.300	0.300	01/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 89.4-12	6						
TPH 8015M	mg/	kg	Analyze	d By: ms			(5)		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/06/2014	ND	212	106	200	3.32	
DRO >C10-C28	<10.0	10.0	01/06/2014	ND	207	103	200	2.78	
Surrogate: 1-Chlorooctane	100 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.5	% 63.6-15	4						

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YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:

01/03/2014

Sampling Date:

01/02/2014

Reported:

01/09/2014

Sampling Type:

01/02/20

Project Name:

MARTHA AIK FEDERAL #1 (TIN HORN)

Sampling Type.
Sampling Condition:

Soil Cool & Intact

Project Number:

30-015-26549

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: TH COMP 6' (H400014-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2014	ND	2.10	105	2.00	1.72	
Toluene*	<0.050	0.050	01/08/2014	ND	2.10	105	2.00	1.75	
Ethylbenzene*	< 0.050	0.050	01/08/2014	ND	2.16	108	2.00	1.93	
Total Xylenes*	<0.150	0.150	01/08/2014	ND	6.23	104	6.00	0.713	
Total BTEX	<0.300	0.300	01/08/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 89.4-12	6						
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/06/2014	ND	212	106	200	3.32	
DRO >C10-C28	<10.0	10.0	01/06/2014	ND	207	103	200	2.78	
Surrogate: 1-Chlorooctane	107 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.4	% 63.6-15	4						

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\*=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.



### **Notes and Definitions**

QM-4X

The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance

limits.

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

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Kune

# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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12/3/2013 Release

January 09, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: MARTHA AIK FEDERAL #1 (TIN HORN)

Enclosed are the results of analyses for samples received by the laboratory on 01/03/14 10:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

01/03/2014

Sampling Date:

01/02/2014

Reported:

01/09/2014

Sampling Type:

Soil

Project Name:

MARTHA AIK FEDERAL #1 (TIN HORN)

Sampling Condition:

Cool & Intact

Project Number:

30-015-26549

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

### Sample ID: TH COMP 1' (H400014-01)

Chloride, SM4500CI-B	Ch	lorid	le,	SN	14	50	0	CI	-B
----------------------	----	-------	-----	----	----	----	---	----	----

### mg/kg

### Analyzed By: AP

Analyte

Result

Reporting Limit

Analyzed

Analyzed

Method Blank

BS

% Recovery 104

True Value QC

RPD

3.77

Chloride

4800

16.0

01/08/2014

ND

416

400

Qualifier

### Sample ID: TH COMP 2' (H400014-02)

Chloride,	SM4500CI-B

Analyte

Analyte

Analyzed By: AP

True Value QC

400

Qualifier

Chloride

Chloride

Chloride

Result 6640 Reporting Limit 16.0

Reporting Limit

16.0

01/08/2014

Method Blank ND

ND

BS 416

104

RPD 3.77

### Sample ID: TH COMP 3' (H400014-03)

Chloride,	SM4	500C	I-B

Result

7280

Analyzed By: AP

Analyzed

01/08/2014

Method Blank

BS

416

% Recovery 104

% Recovery

True Value QC

400

RPD

3.77

Qualifier

### Sample ID: TH COMP 4' (H400014-04)

### Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result

4160

Reporting Limit

16.0

Analyzed 01/08/2014 Method Blank ND

BS 416 % Recovery 104

True Value QC 400

RPD 3.77 Qualifier

### Cardinal Laboratories

\*=Accredited Analyte

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Celey & Keine



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

01/03/2014

Sampling Date:

01/02/2014

Reported:

01/09/2014

Sampling Type:

Soil

Project Name:

MARTHA AIK FEDERAL #1 (TIN HORN)

16.0

16.0

Sampling Condition:

Cool & Intact

Project Number:

30-015-26549

Sample Received By:

Jodi Henson

EDDY COUNTY, NM

Project Location:

Sample ID: TH COMP 5' (H400014-05) Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result

4240

4800

Reporting Limit

Analyzed 01/08/2014 Method Blank ND

BS 416 % Recovery 104

True Value QC 400

RPD 3.77 Qualifier

Sample ID: TH COMP 6' (H400014-06)

Chloride, SM4500CI-B

Chloride

Analyzed By: AP

Analyte Chloride

Result Reporting Limit

01/08/2014

Analyzed

ND

Method Blank

BS 416

104

% Recovery

True Value QC 400

**RPD** 3.77 Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Kune



### **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

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine

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### ARDINAL LABORATORIES

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City/State/Zip:	Artesia, NM 88210						1	1				1		1						PO #	.# !					N	205-2020	20:	120			1	1	
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12/3/2013 Release

February 14, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: MARTHA AIK FEDERAL #1 (TIN HORN)

Enclosed are the results of analyses for samples received by the laboratory on 02/12/14 13:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celes D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

Γo: (505) 748-4635

Received:

02/12/2014

Sampling Date:

02/10/2014

Reported:

02/14/2014

Sampling Type:

Soil

Project Name:

MARTHA AIK FEDERAL #1 (TIN HORN)

Sampling Condition:

Cool & Intact

Project Number:

30-015-26549

Sample Received By:

Kathy Perez

Project Location:

EDDY COUNTY, NM

### Sample ID: TH COMP 7' (H400425-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	02/14/2014	ND	416	104	400	3.92	

### Sample ID: TH COMP 8' (H400425-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	02/14/2014	ND	416	104	400	3.92	
Sample ID: TH COMP 9' (	H400425-03)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AP					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6160	16.0	02/14/2014	ND	416	104	400	3.92	

Cardinal Laboratories

\*=Accredited Analyte

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### **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

Cardinal Laboratories

\*=Accredited Analyte

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Celey & Keene

LL LADDAYORES   CHAM OF CUSTODY RECORD AND ANALYSIS REQUEST   Project Name   National Transmission	Relinquished by:	Relinquished by:	Special Instructions:									اع		LAB # (lab use only) .	36400H##H400	The property	Sampler Signature:	Telephone No:	City/State/Zip:	Company Address:	Company Name	Project Manager:	ARDINAL 101 East N	か
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March 10, 2015

AMBER CANNON
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: MARTHA AIK FEDERAL #1 (TIN HORN)

Enclosed are the results of analyses for samples received by the laboratory on 03/06/15 9:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION

AMBER CANNON

105 S 4th Street

Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/06/2015

Sampling Date:

03/03/2015

Reported:

03/10/2015

Sampling Type:

Soil

Project Name:

MARTHA AIK FEDERAL #1 (TIN HORN)

Sampling Condition:

\*\* (See Notes)

Project Number:

2RP-2113 & 2RP-2506

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

### Sample ID: MAR TH 1-3 (H500620-01)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/09/2015	ND	416	104	400	3.77	
Sample ID: MAR TH 1-5 (H	500620-02)								
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/09/2015	ND	416	104	400	3.77	
Sample ID: MAR TH 2-3 (H	500620-03)								
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/09/2015	ND	416	104	400	3.77	
Sample ID: MAR TH 2-5 (H	500620-04)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/09/2015	ND	416	104	400	3.77	

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Celon Ditreme



YATES PETROLEUM CORPORATION AMBER CANNON

105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received: Reported: 03/06/2015

03/10/2015

Project Name: MARTHA AIK FEDERAL #1 (TIN HORN) Project Number: 2RP-2113 & 2RP-2506

Project Location:

EDDY COUNTY, NM

Sampling Date:

Sampling Type:

Sample Received By:

Soil

Sampling Condition:

\*\* (See Notes)

03/03/2015

Jodi Henson

### Sample ID: MAR TH 3-3 (H500620-05)

mg	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
176	16.0	03/09/2015	ND	416	104	400	3.77	
0620-06)								
mg	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
128	16.0	03/09/2015	ND	416	104	400	3.77	
0620-07)								
mg	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
112	16.0	03/09/2015	ND	416	104	400	3.77	
0620-08)								
mg	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
432	16.0	03/09/2015	ND	400	100	400	0.00	
0620-09)								
970	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	Result 176 0620-06) mg Result 128 0620-07) mg Result 112 0620-08) mg Result 432	176 16.0  16.0  1620-06)  178 Result Reporting Limit  128 16.0  1620-07)  179 Result Reporting Limit  112 16.0  1620-08)  179 Result Reporting Limit  112 16.0  179 Result Reporting Limit  189 Result Reporting Limit  199 Result Reporting Limit	Result         Reporting Limit         Analyzed           176         16.0         03/09/2015           0620-06)         mg/kg         Analyzed           Result         Reporting Limit         Analyzed           128         16.0         03/09/2015           0620-07)         mg/kg         Analyzed           Result         Reporting Limit         Analyzed           112         16.0         03/09/2015           0620-08)         mg/kg         Analyzed           432         16.0         03/09/2015           0620-09)         mg/kg         Analyze	Result         Reporting Limit         Analyzed         Method Blank           176         16.0         03/09/2015         ND           0620-06)         mg/kg         Analyzed By: AP           Result         Reporting Limit         Analyzed By: AP           0620-09)         mg/kg         Analyzed By: AP	Result         Reporting Limit         Analyzed         Method Blank         BS           176         16.0         03/09/2015         ND         416           0620-06)         Manalyzed By: AP           Result         Reporting Limit         Analyzed By: AP           Analyzed By: AP           D620-09)         Mg/kg         Analyzed By: AP	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           176         16.0         03/09/2015         ND         416         104           0620-06)         mg/kg         Analyzed By: AP           Result         Reporting Limit         Analyzed Method Blank         BS         % Recovery           432         16.0         03/09/2015         ND         400         100           0620-09)         Mg/kg         Analyzed By: AP	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           176         16.0         03/09/2015         ND         416         104         400           0620-06) mg/kg         Analyzed By: AP           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           128         16.0         03/09/2015         ND         416         104         400           0620-07) mg/kg         Analyzed By: AP           Result         Reporting Limit         Analyzed By: AP           Result         Reporting Limit         Analyzed By: AP           Result         Reporting Limit         Analyzed By: AP           True Value QC           432         16.0         03/09/2015         ND         400         100         400           0620-09) mg/kg         Analyzed By: AP	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           176         16.0         03/09/2015         ND         416         104         400         3.77           0620-06)         mg/kg         Analyzed By: AP           Result         Reporting Limit         Analyzed By: AP    Analyzed By: AP

### Cardinal Laboratories

\*=Accredited Analyte

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YATES PETROLEUM CORPORATION

AMBER CANNON

105 S 4th Street Artesia NM, 88210

A (C314 N1-1, 002

Fax To:

(505) 748-4635

Received:

03/06/2015

Sampling Date:

03/03/2015

Reported:

03/10/2015

Sampling Type:

Soil

Project Name:

MARTHA AIK FEDERAL #1 (TIN HORN)

Sampling Condition:

\*\* (See Notes)

Project Number:

2RP-2113 & 2RP-2506

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: MAR TH 5-5 (H500620-10)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result

Analyzed

Method Blank

BS

% Recovery True

True Value QC

RPD Qualifier

Chloride

4720

Reporting Limit 16.0

03/09/2015

ND

400

100

400

0.00

Cardinal Laboratories

\*=Accredited Analyte

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Celeg I treens



### **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

### Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Krene

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

Company Address: 105 South 4th Street

Company Name

Yates Petroleum Corporation

Project Manager:

Amber Cannon

(505) 393-2326 FAX (505) 393-2476

### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name:

Martha AlK Federal #1 (Tin Horn)

Page 6 of 7

2RP-2113 & 2RP-2506 **Eddy County** 

Project Loc:

Project #:

	Relinquished by:	Relinquished by:	Limber	Relinquished by	Special Instructions:			5-		0-	7	6	5				7	-	LAB # (lab use only)		ORDER #:	(lab use only)			
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	Date	Date	3/4/5																CODE	,	20		Limber (à	575-748-4111 or 575-513-8799	Artesia, NM 88210
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Temperature Upon Receipt:	by Sampler/Client Rep. by Courier? UPS	Custody seals on cooler(s)	Labels on container(s) Custody seals on container	Laboratory Comments: Sample Containers Intact? VOCs Free of Headsnace?	-	+-	+	_	_	_	-	_	_	4				A	Anions (CI, SO4, Alkalinity)		707	П		×	
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### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

Relinquished by:	Relinquist	Moed by:		Special I	23	22	21	70	D	8	17	6	U	14	2	17	=	LAB # (lab use only)	ORDER #:	(lab use only)						
ned by:	ned by:	ber Cannon		Special Instructions:	23 Mar TH 5-9	Mar TH 5-7	Mar TH 4-9	Mar TH 4-7	Mar TH 3-13	Mar TH 3-11	Mar TH 3-9	Mar TH 3-7	Mar TH 2-11	Mar TH 2-9	9 Mar TH 2-7	2 Mar TH 1-9	Mar TH 1-7	FIELD CODE	1201039 # H	only)	Sampler Signature:	Telephone No: 5	City/State/Zip:	Company Address: 1	Company Name	Project Manager:
Date	Date	3/6/15																CODE	20	managaring.	Kimber (a	575-748-4111 or 575-513-8799	Artesia, NM 88210	105 South 4th Street	Yates Petroleum Corporation	Amber Cannon
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7	Denson				1:23 PM	1:14 PM	12:55 PM	12:33 PM	12:15 PM	12:00 PM	11:51 AM	11:43 AM	11:26 AM	11:01 AM	10:57 AM	1:56 PM	1:45 PM	Time Sampled			e-mail:	Fax No:				
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Ten	San	Cus	Sar	Lat														Cations (Ca, Mg, Na, K)			1	<del>71</del>	PO#:	00	Ω #	me
Temperature Upon Receipt:	Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS	Labels on container(s) Custody seals on container Custody seals on cooler(s)	Sample Containers Intact? VOCs Free of Headspace?	Laboratory Comments:	.,													Anions (Cl, SO4, Alkalinity)	ō	7	1	×	1		1	1
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Ď.		Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	3 3	"														BTEX 8021B/5030 or BTEX 82	260	1	1		205-2020	Eddy County	2RP-2113 & 2RP-2506	Martha AIK Federal #1 (Tin Horn)
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March 10, 2015

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: MARTHA AIK FEDERAL #1 (TIN HORN)

Enclosed are the results of analyses for samples received by the laboratory on 03/06/15 9:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON

105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/06/2015

Sampling Date:

03/03/2015

Reported:

03/10/2015

Sampling Type:

Soil

Project Name:

MARTHA AIK FEDERAL #1 (TIN HORN)

Sampling Condition:

\*\* (See Notes)

Project Number:

2RP-2113 & 2RP-2506

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: MAR TH 1-7 (H500620-11)

Chloride, SM4500CI-B

Analyte

Analyte

Analyzed By: AP

Analyte

Result <16.0 Reporting Limit 16.0

Analyzed 03/09/2015 Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD

0.00

**RPD** 

0.00

Sample ID: MAR TH 1-9 (H500620-12)

Chloride, SM4500CI-B

Analyzed By: AP

BS

Qualifier

Qualifier

Chloride

Chloride

Chloride

Result <16.0

16.0

Reporting Limit

Analyzed 03/09/2015 Method Blank ND

400

% Recovery 100

True Value QC 400

Sample ID: MAR TH 2-7 (H500620-13)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Result Reporting Limit Analyzed

03/09/2015

Method Blank

ND

BS

400

True Value QC

400

RPD

0.00

Qualifier

Sample ID: MAR TH 2-9 (H500620-14)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte Chloride

Result 4560

592

Reporting Limit 16.0

16.0

Analyzed 03/09/2015 Method Blank ND

BS 400 % Recovery 100

% Recovery

100

True Value QC

400

**RPD** 0.00

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Colon Street



YATES PETROLEUM CORPORATION AMBER CANNON

105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/06/2015

Sampling Date:

03/03/2015

Reported:

03/10/2015

Sampling Type:

Soil

Project Name:

MARTHA AIK FEDERAL #1 (TIN HORN)

Sampling Condition:

\*\* (See Notes)

Project Number:

2RP-2113 & 2RP-2506

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

### Sample ID: MAR TH 2-11 (H500620-15)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	1550	16.0	03/09/2015	ND	400	100	400	0.00	
Sample ID: MAR TH 3-7 (H50	0620-16)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	208	16.0	03/09/2015	ND	400	100	400	0.00	
Sample ID: MAR TH 3-9 (H500	0620-17)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	03/09/2015	ND	400	100	400	0.00	Qualifici
Sample ID: MAR TH 3-11 (H50	00620-18	)							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Qualifier
Chloride	13900	16.0	03/09/2015	ND	400	100	400	0.00	Qualifier
Sample ID: MAR TH 3-13 (H50	00620-19	)							
Chloride, SM4500CI-B	mg/		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	03/09/2015	ND	400	100	400	0.00	Qualifier

### Cardinal Laboratories

\*=Accredited Analyte

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Celly to Kreene



YATES PETROLEUM CORPORATION AMBER CANNON

105 S 4th Street Artesia NM, 88210

03/09/2015

Fax To:

(505) 748-4635

Received:

03/06/2015

Sampling Date:

03/03/2015

Reported:

Chloride

03/10/2015

Sampling Type:

400

Soil

True Value QC

400

Project Name:

MARTHA AIK FEDERAL #1 (TIN HORN)

Sampling Condition:

% Recovery

100

\*\* (See Notes)

**RPD** 

0.00

Qualifier

Project Number: Project Location:

2RP-2113 & 2RP-2506 EDDY COUNTY, NM

Sample Received By:

Jodi Henson

### Sample ID: MAR TH 4-7 (H500620-20)

Chloride, SM4500CI-B	mg	/kg	Analyz	ed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS

16.0

4880

### Sample ID: MAR TH 4-9 (H500620-21)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7760	16.0	03/09/2015	ND	400	100	400	0.00	

ND

### Sample ID: MAR TH 5-7 (H500620-22)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	03/09/2015	ND	400	100	400	0.00	

### Sample ID: MAR TH 5-9 (H500620-23)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	03/09/2015	ND	400	100	400	0.00	

### Cardinal Laboratories

\*=Accredited Analyte

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Celeg to trene



### **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

### Cardinal Laboratories

\*=Accredited Analyte

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Clay to trans-

	Relinquished by:	Relinquished by:	Relinquished by:		Special In		10	2	9		16	0	2 1	2	12	1-	LAB # (lab use only)		(lab use only) ORDER #:								Ra
	ed by:	6	ed by:		Special Instructions:		Mar TH 5-5	Mar TH 5-3	Mar TH 4-5	Mar TH 4-3	Mar TH 3-5	Mar TH 3-3	Mar TH 2-5	Mar TH 2-3	Mar TH 1-5	Mar IH 1-3	FIELD CODE		only) R#: H500621	Sampler Signature:	Manage of the Control		City/State/Zip: Artes	Company Address: 105 8	Company Name Yates	Project Manager: Amb	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
	Date	Date Date	MACHINE STATE OF THE PERSON NAMED IN														m		0	muder (a	575-748-4111 or 575-513-8799	11200 (MM) 00210	NM 88210	105 South 4th Street	Yates Petroleum Corporation	Amber Cannon	NTORIES bbs, NM 88240
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•	Repelved by ELOT	Received by:	Received by:				3/3/2015	3/3/2015	3/3/2015	3/3/2015	3/3/2015	3/3/2015	3/3/2015	3/3/2015	3/3/2015	3/3/2015	Date Sampled										(505) 393-232
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Temperature Upon Receipt:	Sam	Custody seals on container(s) Custody seals on cooler(s)	VOCs Free of Headspace? Labels on container(s)	Laboratory Comments: Sample Containers Intact?													Cations (Ca, Mg, Na, K)				2	PO#:	Š	2	ect 7	lam	)RD
pera	nple Hand Delivered by Sampler/Client Rep. ? by Courier? UPS [	od y	VOCs Free of Headsp Labels on container(s)	Laboratory Comments: Sample Containers Intact		_	_	_	_				$\perp$				Anions (CI, SO4, Alkalinity)		107		×	1"	ľ	; 1	"		A
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ceipt	S Rep.	aine er(s)	ace	ts:	$\dashv$	_	+	+	+	+	+	+	+	$\dashv$	4	-	Semivolatiles		Analyze For:		-		In	,	0	₽	SIS
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																						E.	,		Pa	ge 6	of 7

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

Relinquished by:	Relinquished by	My Dev	opecial	22	22	21	32	70	8	17	9	Tr	17	2	17		LAB # (lab use only)	(lab use only) ORDER #:						
hed by:	hed by:	ber annon	opecial insurctions:	23 Mar TH 5-9	Mar TH 5-7	Mar TH 4-9	Mar TH 4-7	Mar TH 3-13	Mar TH 3-11	Mar TH 3-9	Mar TH 3-7	Mar TH 2-11	Mar TH 2-9	Mar TH 2-7	Mar TH 1-9	Mar TH 1-7	FIELD CODE	r#: H50062C	Sampler Signature: ( ) W	Telephone No: 575-74	City/State/Zip: Artesia	Company Address: 105 So	Company Name Yates I	Project Manager: Amber Cannon
Date	Date	3/6/15																	limbus (a	575-748-4111 or 575-513-8799	Artesia, NM 88210	105 South 4th Street	Yates Petroleum Corporation	Cannon
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)T:	Lenson		A representation of the contract of the contra	1:23 PM	1:14 PM	12:55 PM	12:33 PM	12:15 PM	12:00 PM	11:51 AM	11:43 AM	11:26 AM	11:01 AM	10:57 AM	1:56 PM	1:45 PM	Time Sampled		e-mail:	Fax No:				
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pon	Clie	on co	ners														Volatiles		Analyze	ard			27	Ina
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pt:	Ö	ner(s	, 50 S														BTEX 80218/5030 or BTEX 82	60	FI O		205	dd	1	Fe
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March 10, 2015

AMBER CANNON
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: MARTHA AIK FEDERAL #1 (TIN HORN)

Enclosed are the results of analyses for samples received by the laboratory on 03/06/15 9:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/06/2015

Sampling Date:

03/03/2015

Reported:

Sampling Type:

Soil

Project Name:

03/10/2015

Cool & Intact

MARTHA AIK FEDERAL #1 (TIN HORN) 2RP-2113 & 2RP-2506

Sampling Condition:

Project Number: Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

### Sample ID: MAR TH 1-1 (H500622-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2015	ND	2.06	103	2.00	5.50	
Toluene*	<0.050	0.050	03/09/2015	ND	1.86	93.2	2.00	5.62	
Ethylbenzene*	<0.050	0.050	03/09/2015	ND	2.18	109	2.00	5.78	
Total Xylenes*	<0.150	0.150	03/09/2015	ND	6.03	100	6.00	5.94	
Total BTEX	<0.300	0.300	03/09/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	115 9	% 61-154							
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/07/2015	ND	194	96.8	200	3.70	
DRO >C10-C28	<10.0	10.0	03/07/2015	ND	200	100	200	4.50	
Surrogate: 1-Chlorooctane	102 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	105 9	% 52.1-17	6						

### 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.

Celeg D. Freene -



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/06/2015

Sampling Date:

03/03/2015

Reported:

03/10/2015

Sampling Type:

Soil

Project Name:

MARTHA AIK FEDERAL #1 (TIN HORN)

Sampling Condition:

Cool & Intact

Project Number:

2RP-2113 & 2RP-2506

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

### Sample ID: MAR TH 2-1 (H500622-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2015	ND	2.06	103	2.00	5.50	
Toluene*	<0.050	0.050	03/09/2015	ND	1.86	93.2	2.00	5.62	
Ethylbenzene*	<0.050	0.050	03/09/2015	ND	2.18	109	2.00	5.78	
Total Xylenes*	<0.150	0.150	03/09/2015	ND	6.03	100	6.00	5.94	
Total BTEX	<0.300	0.300	03/09/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	115 9	% 61-154					***************************************		
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/07/2015	ND	194	96.8	200	3.70	
DRO >C10-C28	<10.0	10.0	03/07/2015	ND	200	100	200	4.50	
Surrogate: 1-Chlorooctane	97.1	% 47.2-157	7					***************************************	
Surrogate: 1-Chlorooctadecane	105 % 52.1-176		5						

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\*=Accredited Analyte

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Celeg to treene -



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/06/2015

Sampling Date:

03/03/2015

Reported:

03/10/2015

Sampling Type:

Soil

Project Name:

MARTHA AIK FEDERAL #1 (TIN HORN)

Sampling Condition:

Cool & Intact

Project Number:

2RP-2113 & 2RP-2506

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: MAR TH 3-1 (H500622-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2015	ND	2.06	103	2.00	5.50	
Toluene*	<0.050	0.050	03/10/2015	ND	1.86	93.2	2.00	5.62	
Ethylbenzene*	<0.050	0.050	03/10/2015	ND	2.18	109	2.00	5.78	
Total Xylenes*	<0.150	0.150	03/10/2015	ND	6.03	100	6.00	5.94	
Total BTEX	<0.300	0.300	03/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1169	% 61-154							
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/07/2015	ND	194	96.8	200	3.70	
DRO >C10-C28	<10.0	10.0	03/07/2015	ND	200	100	200	4.50	
Surrogate: 1-Chlorooctane	92.7	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	99.9	% 52.1-17	6						

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Celeg & Keine



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/06/2015

Sampling Date:

03/03/2015

Reported:

03/10/2015

Sampling Type:

Soil

Project Name:

MARTHA AIK FEDERAL #1 (TIN HORN)

Sampling Condition:

Cool & Intact

Project Number:

2RP-2113 & 2RP-2506

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

### Sample ID: MAR TH 4-1 (H500622-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2015	ND	2.06	103	2.00	5.50	
Toluene*	<0.050	0.050	03/10/2015	ND	1.86	93.2	2.00	5.62	
Ethylbenzene*	<0.050	0.050	03/10/2015	ND	2.18	109	2.00	5.78	
Total Xylenes*	<0.150	0.150	03/10/2015	ND	6.03	100	6.00	5.94	
Total BTEX	<0.300	0.300	03/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	% 61-154	1				**************************************		
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/07/2015	ND	194	96.8	200	3.70	
DRO >C10-C28	<10.0	10.0	03/07/2015	ND	200	100	200	4.50	
Surrogate: 1-Chlorooctane	99.6	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	104 9	% 52.1-17	6						

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\*=Accredited Analyte

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Celes to treens -



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street

Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/06/2015

Sampling Date:

03/03/2015

Reported:

03/10/2015

Sampling Type:

Soil

Project Name:

MARTHA AIK FEDERAL #1 (TIN HORN)

Sampling Condition:

Cool & Intact

Project Number:

2RP-2113 & 2RP-2506

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

### Sample ID: MAR TH 5-1 (H500622-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2015	ND	2.06	103	2.00	5.50	
Toluene*	<0.050	0.050	03/10/2015	ND	1.86	93.2	2.00	5.62	
Ethylbenzene*	<0.050	0.050	03/10/2015	ND	2.18	109	2.00	5.78	
Total Xylenes*	<0.150	0.150	03/10/2015	ND	6.03	100	6.00	5.94	
Total BTEX	<0.300	0.300	03/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	115 9	% 61-154			1,000				
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/07/2015	ND	194	96.8	200	3.70	
DRO >C10-C28	<10.0	10.0	03/07/2015	ND	200	100	200	4.50	
Surrogate: 1-Chlorooctane	96.9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	99.2	% 52.1-17	6						

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\*=Accredited Analyte

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Celeg to treens -



ND

### **Notes and Definitions**

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500CI-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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Freme .-

, company	Relinquished by:	Relinquished by:	Special							h	4	CH	4	_	LAB # (lab use only)	ORDER #:	(lab use only)							Sa	7
original by.		index Carron	Special Instructions:							Mar TH 5-1	Mar TH 4-1	Mar TH 3-1	Mar TH 2-1	Mar TH 1-1	FIE	R#: T1000622		Sampler Signature:	Telephone No:	City/State/Zip:	Company Address:	Company Name	Project Manager:	ARDINAL LA 101 East Mark	1
	Date	3/b/15	TPH: 8015B, BTEX: 8021B. <u>separate report.</u> Thank yo												FIELD CODE	70.00	2 2 2	Umberla	575-748-4111 or 575-513-8799	Artesia, NM 88210	105 South 4th Street	Yates Petroleum Corporation	Amber Cannon	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240	
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	OT.	Hen	Please show BTEX results as mg/kg.							12:59 PM	12:22 PM	11:30 AM	-10:48 AM	10:39 AM	Time Sampled			e-mail:	Fax No:					(505) 393-2326 FAX (505) 393-2476	
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Temperature Upon Receipt:	Sample Hand Delivered by Sampler/Client Rep. by Courier? UPS	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace?		$\vdash$	_	_		_						SAR / ESP / CEC				x Standard				3	j	A A
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													Carrier Vin			-					1	Р	age	8 of 8	



March 10, 2015

AMBER CANNON
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: MARTHA AIK FEDERAL #1 (TIN HORN)

Enclosed are the results of analyses for samples received by the laboratory on 03/06/15 9:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION

AMBER CANNON

105 S 4th Street

Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/06/2015

Sampling Date:

03/03/2015

Reported:

03/10/2015

Sampling Type:

Soil

Project Name:

MARTHA AIK FEDERAL #1 (TIN HORN)

Sampling Condition:

Cool & Intact

Project Number:

2RP-2113 & 2RP-2506

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: MAR TH 1-1 (H500622-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result <16.0 Reporting Limit 16.0

Reporting Limit

Reporting Limit

Reporting Limit

16.0

Analyzed 03/09/2015

Analyzed

Method Blank ND

Method Blank

BS 400 % Recovery 100

True Value QC 400

**RPD** 

3.92

Sample ID: MAR TH 2-1 (H500622-02)

Chloride, SM4500CI-B

Analyte

Analyte

Analyte

Analyzed By: AP

% Recovery

Qualifier

Chloride

Chloride

Result <16.0

16.0 03/09/2015 ND

BS 400

100

True Value QC 400

Qualifier

Sample ID: MAR TH 3-1 (H500622-03)

Chloride, SM4500CI-B

Analyzed By: AP

Method Blank

BS

% Recovery

True Value QC

Oualifier

Chloride

Chloride

Result 352

**RPD** 

RPD

3.92

Result

<16.0

16.0

Analyzed 03/09/2015

ND

Method Blank

ND

400

100

400

3.92

Sample ID: MAR TH 4-1 (H500622-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

03/09/2015

BS

400

% Recovery

100

True Value QC

400

RPD

3.92

Qualifier

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. 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 failed for incidental or incorporate 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,

Celes Ditreme -

Celey D. Keene, Lab Director/Quality Manager





YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street

Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/06/2015

Sampling Date:

03/03/2015

Reported:

03/10/2015

Sampling Type:

Soil

Project Name:

MARTHA AIK FEDERAL #1 (TIN HORN)

Sampling Condition:

Cool & Intact

Project Number:

2RP-2113 & 2RP-2506

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: MAR TH 5-1 (H500622-05)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/09/2015	ND	400	100	400	3.92	

Cardinal Laboratories

\*=Accredited Analyte

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Celeg to Frence



### **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 SM4500CI-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

Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Keene

# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES

Relinquished by:	celinquished by:	pecial Ir					h	Ļ	CH	4	-	LAB # (lab use only)	ORDER #:	lab use only)							6
ned by:	hed by: hed by:	pecial Instructions:					Mar TH 5-1	Mar TH 4-1	Mar TH 3-1	Mar TH 2-1	Mar TH 1-1	FIE	# H500672	niv)	Sampler Signature:	Telephone No:	City/State/Zip:	Company Address:	Company Name	Project Manager:	101 East Mark
Date	3 6 15 Date	Separate report. Thank yo										FIELD CODE	1622		(Imber (6	575-748-4111 or 575-513-8799	Artesia, NM 88210	105 South 4th Street	Yates Petroleum Corporation	Amber Cannon	101 East Marland, Hobbs, NM 88240
		LEX:					-3	4		4	-j.	Beginning Depth	1		annon	8799			ion		
Time	Time	: 8021B. Thank you				-	-	-ř			- <u>-</u>	Ending Depth	1		5						
Received by ELOT:	Replived by:	E					3/3/2015	3/3/2015	3/3/2015	3/3/2015	3/3/2015	Date Sampled									(505) 393-2326
)T:	Jaen	Please show BTEX results as mg/kg.					12:59 PM	12:22 PM	11:30 AM	10:48 AM	10:39 AM	Time Sampled			e-mail:	Fax No:					(505) 393-2326 FAX (505) 393-2476
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Date		orid										Other ( Specify)									
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		on a					S	S	S	S	S	GW = Groundwater S=Soil/Solid	Matrix		8	Repo				77	
=	= 2	lm		++	+			_				NP=Non-Potable Specify Other			3	Report Format:		Pro		Project Name:	
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eratu	Labels on container(s) Custody seals on container Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep. by Courier? UPS	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace?		++		_	1				$\vdash$	SAR/ESP/CEC	TOTAL:			x Standard				_	
le C	cont sals and I and I	ontai of			1		1				<del>                                     </del>	Metals: As Ag Ba Cd Cr Pb Hg				and				Mar	
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4,4	-											N.O.R.M.				장	205-2020	oun	2R	<u>a</u>	
t	FI ed	C					×	×	×	×	×	Chlorides		$\mathbb{I}$			-	\$	2RP-2113 & 2RP-2506	Martha AIK Federal #1 (Tin Horn	
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ကိ	Lone Star Z	ZZ										RUSH TAT (Pre-Schedule) 24,	48, 72 hrs			DES				٦	
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																			P	age	5 of



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 06, 2016

Amber Griffin
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111

**FAX** 

RE: Martha AIK Federal Battery

OrderNo.: 1512A73

### Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 4 sample(s) on 12/23/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

### **Analytical Report**

Lab Order: 1512A73

Date Reported: 1/6/2016

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** 

Yates Petroleum Corporation

Project:

Martha AIK Federal Battery

Lab Order:

1512A73

Lab ID:

1512A73-001

Collection Date: 12/17/2015 1:25:00 PM

Matrix: SOIL

**Analyses** 

Client Sample ID:

RL Qual Units

30

**DF** Date Analyzed

**Batch ID** 

Analyst: LGT

12/30/2015 1:44:01 AM 23001

Chloride

730

Result

mg/Kg

Collection Date: 12/17/2015 1:39:00 PM

Matrix: SOIL

Analyses

Lab ID:

Client Sample ID: 20'

**EPA METHOD 300.0: ANIONS** 

Result

RL Qual Units

**DF** Date Analyzed

**Batch ID** 

Analyst: LGT

Chloride

**EPA METHOD 300.0: ANIONS** 

1000

Result

Result

320

30

mg/Kg

12/30/2015 2:21:14 AM 23001

Lab ID:

**Analyses** 

1512A73-003

1512A73-002

Collection Date: 12/17/2015 2:10:00 PM

Client Sample ID: 25'

**RL Qual Units** 

**RL Qual Units** 

Matrix: SOIL

**DF** Date Analyzed

**Batch ID** 

Analyst: LGT

**EPA METHOD 300.0: ANIONS** 

1200

75

mg/Kg

50 12/30/2015 4:27:36 PM 23001

Lab ID:

**Analyses** 

Chloride

1512A73-004 Client Sample ID: 29'

30

Collection Date: 12/17/2015 2:38:00 PM Matrix: SOIL

**DF** Date Analyzed **Batch ID** 

**EPA METHOD 300.0: ANIONS** 

Chloride

mg/Kg

Analyst: LGT 12/30/2015 3:10:53 AM 23001

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits

Page 1 of 2

- P Sample pH Not In Range
- RL Reporting Detection Limit

# **QC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1512A73

06-Jan-16

Client:

Yates Petroleum Corporation

Project:

Martha AIK Federal Battery

Sample ID MB-23001

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 23001

RunNo: 31145

Prep Date: 12/29/2015 Analysis Date: 12/30/2015 PQL

**PQL** 

1.5

SeqNo: 953296

Units: mg/Kg

Analyte

Result

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit** 

Qual

Chloride

ND 1.5

Sample ID LCS-23001

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Prep Date: 12/29/2015 Batch ID: 23001

RunNo: 31145

SeqNo: 953297

Units: mg/Kg

Analyte

Analysis Date: 12/30/2015

SPK value SPK Ref Val %REC

HighLimit

%RPD **RPDLimit** 

Qual

93.4

90

110

Result

15.00

0

LowLimit

Chloride

14

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix S

В Analyte detected in the associated Method Blank

Ε Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name:	Yates Petroleum Corporat	Work Order N	umber: 1512A	73		RcptNo:	1
Received by/date	e: **	122316					
Logged By:	Lindsay Mangin	12/23/2015 9:40	:00 AM		July Hays		
Completed By:	Lindsay Mangin	12/23/2015 10:3	1:53 AM		Judy Allego	r:	
Reviewed By:	CS	12/23/15					
Chain of Cus	tody	1 7					
1. Custody sea	ls intact on sample bottles?		Yes		No [ ]	Not Present [.]	
2. Is Chain of C	Custody complete?		Yes		No []	Not Present	
3. How was the	sample delivered?		Cour	ier			
Log In							
4. Was an atte	mpt made to cool the samp	es?	Yes		No 🗔	NA []	
5. Were all san	nples received at a tempera	ture of >0° C to 6.0°	C Yes		No 🗆	NA []	
6. Sample(s) in	n proper container(s)?		Yes		No [.]		
7. Sufficient sa	mple volume for indicated to	st(s)?	Yes		No [		
8. Are samples	(except VOA and ONG) pro	perly preserved?	Yes		No 🗆		
9. Was preserv	vative added to bottles?		Yes		No 🐼	NA []	
10.VOA vials ha	ave zero headspace?		Yes	42 77 78 78	No 🗆	No VOA Vials	
11. Were any sa	ample containers received b	roken?	Yes	L	No 🔛	# of preserved	
12 Does namen	work match bottle labels?		Yes		No []	bottles checked for pH:	
	pancies on chain of custody	):	res		NO L.	CAST CASCAS • CLOSE CITY	or >12 unless noted)
13. Are matrices	s correctly identified on Chair	of Custody?	Yes		No []	Adjusted?	
14. Is it clear wh	at analyses were requested	?	Yes		No []		
	ding times able to be met? customer for authorization.)		Yes		No []	Checked by:	
Special Hand	iling (if applicable)						
16. Was client n	otified of all discrepancles w	ith this order?	Yes		No []	NA 🐼	
Person	n Notified:		Date:	<del></del>	1830-184 - 1879-184 B		
By Wh	Column and the Column		Via: ☐ eMa	ail [	] Phone [ ] Fax	i ] In Person	
Regard							
17. Additional re	Instructions:						
18. Cooler Info	ormation	Seal Intact   Seal	No   Seal D	ate.	Cianed By	1	Ti de la companya de la companya de la companya de la companya de la companya de la companya de la companya de
1	9.8 Good	Yes	. Sear D	al <del>e</del>	Signed By	1	

Ch	ain-c	F-Cus	Chain-of-Custody Record	Turn-Around I ime:	I me:				ulles	A	Ш	S	IR.	N	HALL ENVIRONMENTAL	_
lient:	Yates	Petroleur	Yates Petroleum Corporation	X Standard	□ Rush				-	N	7	SIS	5	BOI	ANALYSIS LABORATORY	24
				Project Name:	**			Ē		www.	allen	www.hallenvironmental.com	enta	moo.		
failing Address:	ess:				Martha AIK Federal Battery	eral Battery	,	1901	Tawk	4901 Hawkins NE -	- A	enbnq	due,	Albuquerque, NM 87109	109	
05 South 4th Street Artesia, NM	th Stre	et Artes	88210	Project #:				Tel.	505-3	Tel. 505-345-3975	2	Fax	69-3	505-345-4107		
hone #		575-513	575-513-8799 or 575-748-4111			***************************************					Anal	Analysis Request	edne	st		
mail or Fax#:	ái.	agriffin@	agriffin@yatespetroleum.com	Project Manager:	ger:							-	S			
AVOC Package:	ge:				Amber Griffin	illu.							bCB			halan kalanta Yaka
1 Standard			☐ Level 4 (Full Validation)		PO# 205-2020	2020		-					280			(
.ccreditation:	μ.			Sampler:		Amber Griffin 7 (U					(LIV		1 8(	(/		Ии
NELAP		□ Other		On Ice:	Z Yes	- S		-			-					0 /
1 EDD (Type)	(e)			Sample Temp	Temperature:	7		and the last of th								V S
Date	Тіте	Matrix	Sample Request ID	Container Type and #	Preservativ e Type	1512A73	BTEX + M	LbH Wetho	rtPH (Meth	EDB (Well	ANY) 01E8 M 8 AYOA	7,4) snoin∧	ilse9 1808	8260B (VC		Air Bubble
2/17/2015	1.25	1.25 Soil	15	1 - 4oz.		-∞-						×				
2/17/2015	1:39	1:39 Soil	20.	1 - 4oz.		700 -					_	×				
2/17/2015	2:10	2:10 Soil	25.	1 - 4oz.		- 803						×				
2/17/2015	2:38	2:38 Soil	29.	1 - 4oz.		-04						×				
								40.00					1 1			-
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II no	- Autobaca	or notes sub-	ti petramonia od vem letamentima i Lai. En independentima se se se se de la company de	of rected to other ac	Credited laboratori	V other accredited taboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	lidissod	A. Am	sup-oc	ntracted	data wil	be clear	y notati	d on the a	nelytical report.	