MARTIN YATES, III 1912-1985 FRANK W. YATES

1936-1986 S.P YATES 1914-2008



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

www.yatespetroleum.com

JOHN A. YATES JR.

JOHN A. YATES

DOUGLAS E. BROOKS
PRESIDENT
CHIEF EXECUTIVE OFFICER

JOHN D. PERINI CHIEF FINANCIAL OFFICER

February 8, 2016

Mr. Mike Bratcher or Ms. Heather Patterson NMOCD District II 811 South First Artesia, NM 88210

RE:

Corral Draw AQH Federal #1

30-015-29396

Section 13, T24S-R29E Eddy County, New Mexico

Mr. Bratcher or Ms. Patterson,

Yates Petroleum Corporation would like to submit the following plan of work to you regarding the release that occurred at the above mentioned facility on November 22, 2015 (2RP-3436). The release was 20 barrels of produced water with 11 barrels of produced water recovered.

With NMOCD and BLM approval of this work plan, Yates will hold a bid meeting allowing several contractors the opportunity to submit bids on this remediation project. Bids that are received will be forwarded to Yates Management for review. Once Yates Management reviews the bids and gives approval, the remediation project will be awarded to a contractor for work to commence.

If you have any questions or concerns, I can be reached at (575) 748-4111 or by email at agriffin@yatespetroleum.com.

Thank You,

amber Griffin

Environmental Regulatory Agent

Yates Petroleum Corporation

Yates Petroleum Corporation

Corral Draw AQH Federal #1

Section 13, T24S-R29E

Eddy County, New Mexico

February 8, 2016

I. Location

The release area is located approximately 7.2 miles east of Malaga, NM via Duarte Road, McDonald Road, Dogtown Road and lease roads.

II. Background

On November 22, 2015, Yates had a release of 20 barrels produced water with 11 barrels produced water recovered. The area affected from this release was within the unlined, bermed battery. An initial Form C-141 was submitted, via e-mail, to the NMOCD District II on December 7, 2015.

On January 13, 2016 Yates returned to the site and collected initial soil samples from the surface and 6" below surface level using a shovel and a hand auger. The rock and hardness of the caliche within the battery area prevented further initial hand sampling. The surface and 6" soil samples were sent to an approved NMOCD laboratory and tested for BTEX 8021B, TPH 8015M, and Chlorides 300.0. Yates received the analytical results on January 21, 2016 (Report 1601547 attached to this work plan). The analytical results showed that both BTEX and TPH had delineated to levels below NMOCD RRAL's. The analytical results also showed elevated chloride levels, and Yates determined that further vertical delineation of chlorides was needed.

On January 27, 2016 Yates returned to the site and collected further soil samples from the depths of 1'-12' below the surface level with a backhoe. The soil samples were sent to an approved NMOCD laboratory and tested for Chlorides 300.0. Yates received the analytical results on February 4, 2016 (Report 1601B42 attached to this work plan). The analytical results showed that chloride levels had delineated.

III. Surface and Ground Water

Area surface geology is Cenozoic. The ChevronTexaco depth to ground water map shows the depth to groundwater to be approximately 100'-125' feet making the site ranking for this site a zero (0). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is zero (0) based on the following:

Depth to ground water >100'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

IV. Soils

The area consists of soils that are caliche and clay seams.

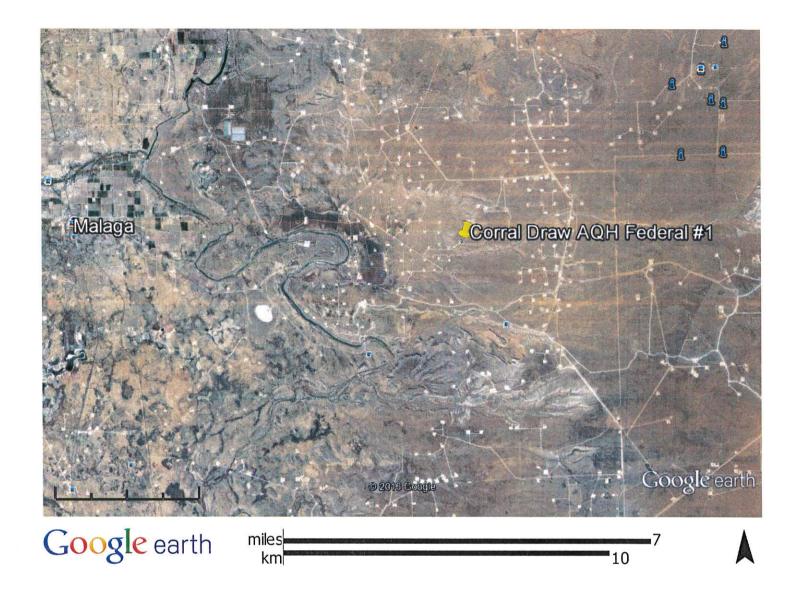
V. Scope of Work

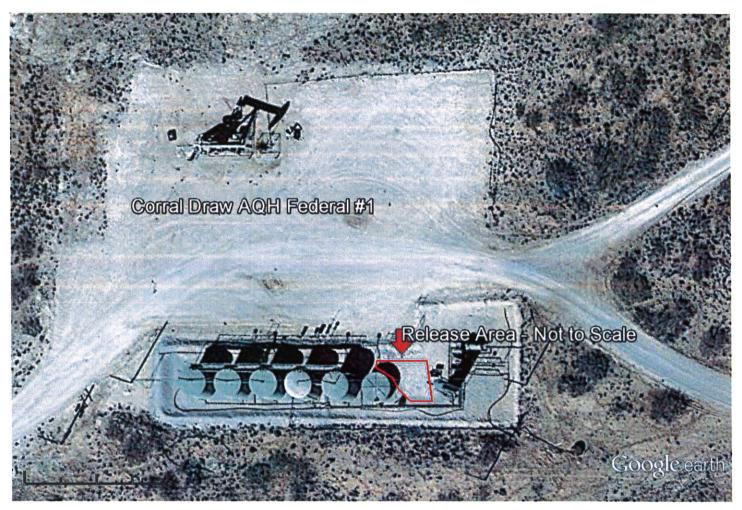
Based off the analytical reports which show complete vertical delineation, Yates proposes to excavate 4' from the release area. The excavation will be approximately 60' long, 20' wide.

Once all soils have been excavated, a 20 mil synthetic liner will be placed in the bottom of the excavation. The backfill of the excavation will then be completed with caliche.

Contaminated soils that are excavated will be hauled to a NMOCD approved disposal facility, The Lea Land, Inc. Landfill located on Highway on 62/180 or R360 Environmental Solutions Red Bluff Facility located on Highway 285 near Orla, Texas, depending on which contractor the work is assigned to.

Once all excavation and backfill work is complete, Yates will submit a Final Form C-141 to NMOCD and NMSLO requesting closure of this release.





Google earth

feet 200 meters 60



Corral Draw AQH Federal #1

Surface Release area	-	-								
		Sample Date	Report	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	TOTAL Chlorides
	e area	1/13/2016	1601547	Grab/Shovel	Surface	QN	QN	3,500	3,500	290
	Release area	1/13/2016	1601547	Grab/Auger	6"	ND	N _O	63	63	5,600
1' Release area	e area	1/27/2016	1601B42	Grab/Backhoe	1.	1	ı	2	ì	009
2' Release area	e area	1/27/2016	1601B42	Grab/Backhoe	2'	1	1	,	ì	1,200
3' Release area	e area	1/27/2016	1601B42	Grab/Backhoe	4.	•	1			9,200
4' Release area	e area	1/27/2016	1601B42	Grab/Backhoe	5'	•	1		1	15,000
6' Release area	e area	1/27/2016	1601B42	Grab/Backhoe	6'	,	1	1	-	2,400
8' Release area	e area	1/27/2016	1601B42	Grab/Backhoe	7.	•	ı	ı	ı	11,000
10' Release area	e area	1/27/2016	1601B42	Grab/Backhoe	8,	,	1	ı	L	41
12' Release area	e area	1/27/2016	1601B42	Grab/Backhoe	11.	1	1	1	,	78

Site Ranking is ZERO (0). Depth to Ground Water >100' (approx. 100'-125', per ChevronTexaco trend map).

All results are ppm.Chlorides for documentation. Released: 20 B/PW; Recovered: 11 B/PW. Release Date: 11/22/2015, 2RP-3436



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

January 21, 2016

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

FAX

RE: Corral Draw AQH Federal #1

OrderNo.: 1601547

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/15/2016 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 www.hallenvironmental.com 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 qualifiers 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: 1601547

Date Reported: 1/21/2016

1601547

Hall Environmental Analysis Laboratory, Inc.

CLIENT:

Yates Petroleum Corporation

Project:

Lab ID:

Corral Draw AQH Federal #1

1601547-001

Collection Date: 1/13/2016 11:48:00 AM

Matrix: SOIL

Matrix: SOIL

Lab Order:

Analyses

Client Sample ID: Surface

RL Qual Units

DF Date Analyzed

Batch ID

Analyst: LGT

EPA METHOD 300.0: ANIONS

Chloride

30

mg/Kg

20 1/19/2016 2:01:13 PM

23289

Lab ID:

Analyses

Chloride

1601547-002

Collection Date: 1/13/2016 12:00:00 PM

Client Sample ID:

RL Qual Units

DF Date Analyzed

Batch ID

EPA METHOD 300.0: ANIONS

5600

Result

590

Result

300

mg/Kg

200 1/20/2016 1:42:43 PM

Analyst: LGT 23289

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
- Η Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
 - Sample pH Not In Range
- Page 1 of 2
- Reporting Detection Limit RL

P

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1601547 21-Jan-16

Client:

Yates Petroleum Corporation

Project:

Corral Draw AQH Federal #1

Sample ID MB-23289

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 23289

RunNo: 31548

Prep Date: 1/19/2016

Analysis Date: 1/19/2016

Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit

SeqNo: 965595

Analyte Chloride

Result **PQL**

HighLimit

%RPD **RPDLimit** Qual

ND 1.5

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 23289

RunNo: 31548

Prep Date: 1/19/2016

Sample ID LCS-23289

Analysis Date: 1/19/2016

SeqNo: 965596

Units: mg/Kg

HighLimit

%RPD **RPDLimit**

Analyte

Result

PQL SPK value SPK Ref Val

%REC 92.4

LowLimit

Qual

Chloride

14

15.00

110

1.5

90

Qualifiers:

S

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits В Analyte detected in the associated Method Blank

Value above quantitation range E

1 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 87169

TEL: 503-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Yates Petroleum Corp	ora Work Order Number.	160154	7		RoptNo: 1	
Received by/date:	orlishe					
Logged By: Lindsay Mangin	1/15/2016 9:50:00 AM		Junkyth	Myso		
Completed By: Lindsay Mangin	1/15/2016 12:25:35 PM		Juneley 18	1490		
Reviewed By:			U			
Chain of Custody						
1. Custody seals intact on sample bott	les?	Yes	V No		Not Present	
2. Is Chain of Custody complete?		Yes	✓ No		Not Present	
3. How was the sample delivered?		Courie	ū			
<u>Log In</u>						
4. Was an attempt made to cool the s	amples?	Yes	✓ No		NA 🗀	
5. Were all samples received at a tem	perature of >0° C to 6.0°C	Yes 5	✓ No	L	NA 🗆	
6. Sample(s) in proper container(s)?		Yes	✓ No			
7. Sufficient sample volume for indicate	ed test(s)?	Yes	✓ No			
8. Are samples (except VCA and ONG	6) properly preserved?	Yes	✓ No			
9. Was preservative added to bottles?		Yes	No	V	NA 🗆	
10.VOA vials have zero headspace?		Yes	No		No VOA Vials 🗹	
11, Were any sample containers receive	red broken?	Yes	No	~	# of preserved	
12. Does paperwork match bottle labels (Note discrepancies on chain of cus		Yes	✓ No		bottles checked for pH: (<2 or >12 unless	noted
13. Are matrices correctly identified on		Yes	✓ No		Adjusted?	
14. Is it clear what analyses were reque			✓ No			
15. Were all holding times able to be m (If no, notify customer for authorization)		Yes	∨ No		Checked by:	
Special Handling (if applicable	2					
16, Was client notified of all discrepand	ies with this order?	Yes	No	(Committee of the comm	NA 🗹	
Person Notified:	Date	operations and an asset	and the second s	course interior to the course in the course		
By Whom:	Via:] еМа	il Phone	Fax	In Person	
Regarding:				De la disconsiste de la constanta	Charles Constructed in Ministry Construction of Properties	
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17. Additional remarks:						
18. Cooler Information						
Cooler No Temp °C Condi	tion Seal Intact Seal No 3 Yes	Seal Da	te Signed I	Ву		

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11 19



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

January 21, 2016

Amber Griffin
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210

TEL: (575) 748-4111

FAX

RE: Corral Draw AQH Federal #1

OrderNo.: 1601547

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/15/2016 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 www.hallenvironmental.com 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1601547

Date Reported: 1/21/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Corral Draw AQH Federal #1

Lab ID: 1601547-001

Project:

Client Sample ID: Surface

Collection Date: 1/13/2016 11:48:00 AM

Received Date: 1/15/2016 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Ana	lyzed	Batch
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS	6	- 1111 - 1111111				Analyst:	том
Diesel Range Organics (DRO)	3500	970		mg/Kg	100	1/20/2016	12:47:32 PM	23261
Surr: DNOP	0	70-130	S	%REC	100	1/20/2016	12:47:32 PM	23261
EPA METHOD 8015D: GASOLINE RA	NGE						Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/18/2016	11:33:47 PM	23236
Surr: BFB	91.0	66.2-112		%REC	1	1/18/2016	11:33:47 PM	23236
EPA METHOD 8021B: VOLATILES							Analyst:	NSB
Benzene	ND	0.048		mg/Kg	1	1/18/2016	11:33:47 PM	23236
Toluene	ND	0.048		mg/Kg	1	1/18/2016	11:33:47 PM	23236
Ethylbenzene	ND	0.048		mg/Kg	1	1/18/2016	11:33:47 PM	23236
Xylenes, Total	ND	0.097		mg/Kg	1	1/18/2016	11:33:47 PM	23236
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	1/18/2016	11:33:47 PM	23236

Matrix: SOIL

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 5
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Lab Order 1601547

Date Reported: 1/21/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Corral Draw AQH Federal #1

Lab ID: 1601547-002

Client Sample ID: 6"

Collection Date: 1/13/2016 12:00:00 PM

Received Date: 1/15/2016 9:50:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	S			Analyst	: том
Diesel Range Organics (DRO)	63	9.4	mg/Kg	1	1/20/2016 1:09:04 PM	23261
Surr: DNOP	103	70-130	%REC	1	1/20/2016 1:09:04 PM	23261
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/19/2016 2:04:13 AM	23236
Surr: BFB	96.0	66.2-112	%REC	1	1/19/2016 2:04:13 AM	23236
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.048	mg/Kg	1	1/19/2016 2:04:13 AM	23236
Toluene	ND	0.048	mg/Kg	1	1/19/2016 2:04:13 AM	23236
Ethylbenzene	ND	0.048	mg/Kg	1	1/19/2016 2:04:13 AM	23236
Xylenes, Total	ND	0.096	mg/Kg	1	1/19/2016 2:04:13 AM	23236
Surr: 4-Bromofluorobenzene	110	80-120	%REC	1	1/19/2016 2:04:13 AM	23236

Matrix: SOIL

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

 Qualifiers:
 * Value exceeds Maximum Contaminant Level.
 B
 Analyte detected in the associated Method Blank

 D
 Sample Diluted Due to Matrix
 E
 Value above quantitation range

 H
 Holding times for preparation or analysis exceeded
 J
 Analyte detected below quantitation limits
 Page 2 of 5

 ND
 Not Detected at the Reporting Limit
 P
 Sample pH Not In Range

 R
 RPD outside accepted recovery limits
 RL
 Reporting Detection Limit

 S
 % Recovery outside of range due to dilution or matrix

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1601547

21-Jan-16

Chent.	
Project:	

Yates Petroleum Corporation Corral Draw AOH Federal #1

Sample ID LCS-23279

SampType: LCS

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS

Batch ID: 23279

RunNo: 31519

Prep Date: 1/19/2016 Analysis Date: 1/19/2016

SeqNo: 964688

Units: %REC

Analyte

LowLimit

70

70

HighLimit

RPDLimit Qual

Sample ID MB-23279

SampType: MBLK

Result

4.0

%REC

80.8

TestCode: EPA Method 8015M/D: Diesel Range Organics

%RPD

Client ID:

Surr: DNOP

PBS

Batch ID: 23279

RunNo: 31519

130

Prep Date: 1/19/2016 Analysis Date: 1/19/2016

PQL

SegNo: 964690

Units: %REC

RPDLimit

Surr: DNOP

Result

SPK value SPK Ref Val %REC

SPK value SPK Ref Val

LowLimit

HighLimit 130

Qual

8.5

Result

Result

5.0

10.00

5.000

84.7

%RPD

Sample ID MB-23262

SampType: MBLK

10.00

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS

1/18/2016

Batch ID: 23262

RunNo: 31518

126

Units: %REC

130

Analyte

Analysis Date: 1/19/2016 SPK value SPK Ref Val POL

SeqNo: 964967 %REC

HighLimit

%RPD **RPDLimit**

Qual

Surr: DNOP

Prep Date:

13

TestCode: EPA Method 8015M/D: Diesel Range Organics

Sample ID LCS-23262

Client ID: LCSS SampType: LCS Batch ID: 23262

RunNo: 31518

LowLimit

LowLimit

130

Analyte

Prep Date: 1/18/2016

Analysis Date: 1/19/2016

SeqNo: 964968

70

Units: %REC

Surr: DNOP

SPK value SPK Ref Val

5.000

%REC

HighLimit

%RPD **RPDLimit**

Qual

PBS

Sample ID MB-23261

SampType: MBLK Batch ID: 23261

TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 31518

99.3

Prep Date:

Client ID:

1/18/2016

Analysis Date: 1/19/2016

Result

SeqNo: 965018

Units: mg/Kg

Analyte

Diesel Range Organics (DRO)

ND

SPK value SPK Ref Val

B

50.00

5.000

SPK value SPK Ref Val %REC

LowLimit

HighLimit %RPD

Qual

S

Surr: DNOP

16 10.00

PQL

10

10

PQL

160

70

130

RPDLimit

Diesel Range Organics (DRO)

Sample ID LCS-23261

SampType: LCS

0

%RPD

TestCode: EPA Method 8015M/D: Diesel Range Organics

Analyte

Client ID:

LCSS Prep Date: 1/18/2016

55

5.7

Result

Batch ID: 23261

Analysis Date: 1/19/2016

RunNo: 31524 SeqNo: 965732

%REC

110

114

65.8

70

LowLimit

Units: mg/Kg

HighLimit

136

130

RPDLimit Qual

Page 3 of 5

Surr: DNOP

H

S

- Qualifiers:
- D Sample Diluted Due to Matrix
- ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits
- Value exceeds Maximum Contaminant Level.
 - Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

- E Value above quantitation range
- P Sample pH Not In Range
- RL Reporting Detection Limit
- I

Analyte detected below quantitation limits

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1601547

21-Jan-16

Client: Project: Yates Petroleum Corporation Corral Draw AOH Federal #1

Sample ID MB-23236 Client ID: PBS

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Prep Date: 1/15/2016

Batch ID: 23236 Analysis Date: 1/18/2016 RunNo: 31503

Analyte

PQL Result ND 5.0 SPK value SPK Ref Val

SeqNo: 964172 %REC LowLimit Units: mg/Kg

Gasoline Range Organics (GRO) Surr: BFB

870

26

930

Result

880

1000

87.0 66.2 HighLimit %RPD

112

RPDLimit

Qual

Sample ID LCS-23236

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Prep Date: 1/15/2016

Batch ID: 23236 Analysis Date: 1/18/2016

5.0

RunNo: 31503 SeqNo: 964173

Units: mg/Kg

122

112

Analyte Gasoline Range Organics (GRO)

Result

PQL SPK value SPK Ref Val

25.00

1000

1000

%REC LowLimit 103 79.6

66.2

LowLimit

66.2

HighLimit %RPD **RPDLimit**

Qual

Surr: BFB

SampType: MBLK

93.1

TestCode: EPA Method 8015D: Gasoline Range

Sample ID 5ML RB Client ID: PBS

Batch ID: A31503

RunNo: 31503

Units: %REC

112

Prep Date: Analyte Surr: BFB

Analysis Date: 1/18/2016 **PQL** SPK value SPK Ref Val

SeqNo: 964229 %REC

87.7

HighLimit

%RPD

RPDLimit Qual

Sample ID 2.5UG GRO LCS

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: A31503

PQL

RunNo: 31503 SeqNo: 964230

Units: %REC

112

Prep Date: Analyte

Surr: BFB

Result

970

Analysis Date: 1/18/2016 SPK value SPK Ref Val %REC

1000

1000

LowLimit

HighLimit %RPD

RPDLimit

Qual

Sample ID MB-23266

SampType: MBLK

97.4

TestCode: EPA Method 8015D: Gasoline Range

66.2

66.2

Client ID: **PBS**

Batch ID: 23266

RunNo: 31526

SeqNo: 965257

Analyte Surr: BFB

Prep Date:

1/18/2016

Result POL

Analysis Date: 1/19/2016 SPK value SPK Ref Val

LowLimit

LowLimit

66.2

Units: %REC HighLimit

%RPD **RPDLimit**

Qual

Sample ID LCS-23266

SampType: LCS

870

%REC

872

TestCode: EPA Method 8015D: Gasoline Range

%RPD

112

Client ID: LCSS

Prep Date: 1/18/2016

Batch ID: 23266

RunNo: 31526

HighLimit

112

Analyte

Surr: BFB

Analysis Date: 1/19/2016

960

SPK value SPK Ref Val

1000

SeqNo: 965258 %REC

95.8

Units: %REC

RPDLimit

Page 4 of 5

Qual

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1601547

21-Jan-16

Client: Project:

Xylenes, Total

Surr: 4-Bromofluorobenzene

Yates Petroleum Corporation Corral Draw AQH Federal #1

3.2

1.1

0.10

3.000

1.000

Sample ID MB-23236	SampT	ype: MB	3LK	Tes	Code: EF	A Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: 232	236	F	RunNo: 3	1503				
Prep Date: 1/15/2016	Analysis D	ate: 1/	18/2016	S	SeqNo: 90	64250	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			rwa shijikarti kuaze ir las less r
Sample ID LCS-23236	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: 232	236	F	RunNo: 3					
Prep Date: 1/15/2016	Analysis D	ate: 1/	18/2016	8	SeqNo: 9	64254	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.050	1.000	0	94.3	80	120		- Anno Mila de Caración de Car	
Toluene	0.99	0.050	1.000	0	99.0	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80				

Sample ID MB-23266	SampT	ype: Mi	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	n ID: 23	266	F	RunNo: 3	1526				
Prep Date: 1/18/2016	Analysis D	ate: 1	/19/2016	S	SeqNo: 9	65266	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		99.4	80	120			

0

107

114

80

80

120

120

Sample ID LCS-23266	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch	1D: 23	266	F	RunNo: 3	1526				
Prep Date: 1/18/2016	Analysis D	ate: 1	/19/2016	5	SeqNo: 9	65267	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120			

Qualifiers:

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

Page 5 of 5



Hall Environmental Analysis Luboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.ballenvironmental.com

Sample Log-In Check List

Client Name: Yates Petroleum C	orpora Work Order Number.	1601547		RcplNo:	1
Received by/date:	alishe				
.ogged By: Lindsay Mangin	1/15/2016 9:50:00 AM		Julythogo)	
Completed By: Lindsay Mangin	1/15/2016 12:25:35 PM		Freshy May 2)	
Reviewed By:			000		
Chain of Custody					
1. Custody seals intact on sample t	pottles?	Yes V	No 🗆	Not Present	
2. Is Chain of Custody complete?		Yes 🔽	∫ No □	Not Present	
3. How was the sample delivered?		Courier			
Log In					
4. Was an attempt made to cool th	e samples?	Yes 6	No 🗔	NA 🗌	
5. Were all samples received at a t	emperature of >0° C to 6.0°C	Yes 🗹	l cN	NA 🗆	
6. Sample(s) in proper container(s)	?	Yes 5	No 🗔		
7. Sufficient sample volume for indi	cated test(s)?	Yes 🔻	No 🗆		
8. Are samples (except VOA and C	NG) properly preserved?	Yes 🔻	No 🗆		
9. Was preservative added to bottle	os?	Yes 🗌	No V	NA 🗆	
10.VOA vials have zero headspace	?	Yes	l No □	No VOA Vials 🗸	
11, Were any sample containers re-	ceived broken?	Yes	No 🗸	# of preserved	
12 Paga panaguash metab battle lai	-mln2	Yes S	No 🗆	bottles checked for pH:	
Does paperwork match bottle lat (Note discrepancies on chain of		res N	NO	The state of the s	or >12 unless noted
13. Are matrices correctly identified	NO DESCRIPTION OF THE PROPERTY	Yes 5	No 🗆	Adjusted?	
14. Is it clear what analyses were re	quested?	Yes N	No 🗆		
 Were all holding times able to be (If no, notify customer for author 		Yes N	No 🗆	Checked by:	
Special Handling (if applicat	ble)				
16. Was dient notified of all discrep		Yes	No l	NA 🗹	
Person Notified:	Date	on existable and because in least	n per o la di sel de la compania de		
By Whom:	Via:	eMail	Phone Fax	In Person	
Regarding:		tion the result policy states			
Client Instructions:					
17. Additional remarks:					
18. Cooler Information					
	ndition Seal Intact Seal No	Seal Date	Signed By		

TAL	ORY								(N)	10)	() 81	elddu8 niA			unit Lavor		annimutani	Christon			ow BTEX separate		man and a	il report.
HALL ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107		ese (luo	seg	D) H	91 88 (1.8 (1.4 (1.4 (1.8	09 100 109 109 109 109 109 109 109 109 1	bod bor bor no f stelf stelf stelf stelf stelf stelf	BTEX + M BTEX + M TPH Meth TPH (Meth 8310 (PN RCRA 8 M ROS1 Pest 8081 Pest 8081 Pest 8081 Pest	×	×							Remarks: TPH: 8015B, BTEX: 8021B. Please show BTEX results as mg/kg. Please put chloride results on a separate	report. Thank you!		This seams as notine of this nessibility. Any sub-contracted data will be clearly rotated in the analytical report.
Turn-Around Time:	X Standard	Project Name:	Corral Draw AQH Federal #1	Project #:	2RP-3436	Project Manager:	Amber Griffin	T	: Amber Griffin	ON D	Sample Temperature: 4', [Container Preservativ HEAL No. Type and # e Type 1 (0) ST	1.4oz. Ice – Ol	200-							Received by: Date Time R On 1814 0350 n	Date Time		And the second s
Chain-of-Custody Record	Yates Petroleum Corporation		38.	Street Artesia, NM 88210	575-513-8799 or 575-748-4111			☐ Level 4 (Full Validation)		□ Other		Time Matrix Sample Request ID	11:48 Soil Surface	12:00 Soil	Transaction of the state of the						 	十	יאפווויקופיפיומר האי	L
Chai	Ment: Yate		falling Address:	05 South 4th Street	hane #:	mail or Fax#:	MGC Package:] Standard	(ccreditation:] NELAP] EDD (Type)	Date	1/13/2018 1.	Manager Manage							Jate: Time:	2010)3(e:	_



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

February 04, 2016

Amber Griffin Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210

FAX

TEL: (575) 748-4111

RE: Corral Draw AQH Federal #1

OrderNo.: 1601B42

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 8 sample(s) on 1/29/2016 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 www.hallenvironmental.com 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 OC 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

Only

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: 1601B42

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/4/2016

CLIENT: Yates Petroleum Corporation Lab Order: 1601B42 Project: Corral Draw AQH Federal #1 Lab ID: 1601B42-001 Collection Date: 1/27/2016 9:50:00 AM Client Sample ID: 1' Matrix: SOIL POL Qual Units Result **DF** Date Analyzed Analyses **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 600 30 mg/Kg 20 2/2/2016 7:51:02 PM 23541 Lab ID: 1601B42-002 Collection Date: 1/27/2016 9:52:00 AM Client Sample ID: 2' Matrix: SOIL Result PQL Qual Units **DF** Date Analyzed Analyses **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 1200 75 mg/Kg 2/3/2016 3:35:41 PM 23541 1601B42-003 Lab ID: Collection Date: 1/27/2016 9:54:00 AM Client Sample ID: 3' Matrix: SOIL Analyses Result POL Qual Units **DF** Date Analyzed Batch ID **EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 9200 750 500 2/3/2016 3:48:06 PM 23541 mg/Kg Lab ID: 1601B42-004 Collection Date: 1/27/2016 9:57:00 AM Client Sample ID: 4' Matrix: SOIL **PQL** Qual Units Result **DF** Date Analyzed **Batch ID** Analyses **EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 15000 750 mg/Kg 500 2/3/2016 4:00:31 PM 23541 Lab ID: 1601B42-005 Collection Date: 1/27/2016 10:05:00 AM Client Sample ID: 6' Matrix: SOIL Result PQL Qual Units **DF** Date Analyzed Analyses **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT

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

75

mg/Kg

2400

Qualifiers:

Chloride

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 3

50 2/3/2016 4:12:57 PM

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: 1601B42

Date Reported: 2/4/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT:

Yates Petroleum Corporation

Project:

Corral Draw AQH Federal #1

Lab ID:

1601B42-006

1601B42

Matrix: SOIL

Client Sample ID: 8' Analyses

Result PQL Qual Units

Lab Order:

Collection Date: 1/27/2016 10:14:00 AM

DF Date Analyzed **Batch ID**

EPA METHOD 300.0: ANIONS

Chloride

11000

Result

750

mg/Kg

500 2/3/2016 4:25:22 PM

23541

Analyst: LGT

Lab ID:

Analyses

1601B42-007

Collection Date: 1/27/2016 10:36:00 AM

Matrix: SOIL

PQL Qual Units

DF Date Analyzed

Batch ID

EPA METHOD 300.0: ANIONS

Client Sample ID: 10'

Client Sample ID: 12'

Chloride

41

20 2/2/2016 9:55:10 PM

Analyst: LGT 23541

Lab ID:

1601B42-008

mg/Kg

Collection Date: 1/27/2016 10:42:00 AM

Matrix: SOIL

Analyses

Result

30

30

PQL Qual Units

DF Date Analyzed

Batch ID

EPA METHOD 300.0: ANIONS

Chloride

78

mg/Kg

20 2/2/2016 10:07:35 PM

Analyst: LGT 23541

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

> Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 2 of 3

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1601B42

04-Feb-16

Client: Project: Yates Petroleum Corporation

Corral Draw AQH Federal #1

Sample ID MB-23541

SampType: MBLK

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID:

PBS

Batch ID: 23541

RunNo: 31880

Prep Date: 2/2/2016

Sample ID LCS-23541

Prep Date: 2/2/2016

LCSS

Analysis Date: 2/2/2016

SeqNo: 975533

Analyte

Units: mg/Kg

Client ID:

Result **PQL** ND 1.5 SPK value SPK Ref Val %REC HighLimit

RPDLimit

Qual

Chloride

SampType: LCS

Analysis Date: 2/2/2016

Batch ID: 23541

TestCode: EPA Method 300.0: Anions

RunNo: 31880 SeqNo: 975534

Units: mg/Kg

Analyte

Result

15.00

SPK value SPK Ref Val %REC

LowLimit

%RPD

%RPD

Qual

PQL 1.5

HighLimit

RPDLimit

Chloride

14

93.4

110

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

RPD outside accepted recovery limits R % Recovery outside of range due to dilution or matrix S

Analyte detected in the associated Method Blank В

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 3 of 3



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 Corpora Work Order Number	: 1601B42		RcptNo: 1	
Received by/date: 01 75/1L		AND THE RESERVED		
Logged By: Lindsay Mangin 1/29/2016 9:00:00 AM		of lythings		
Completed By: Lindsay Mangin , 1/29/2016 3:06:16 PM		A HARD		
O(3)	6.	000		
Chain of Custody	<u> </u>		**************************************	
Custody seals intact on sample bottles?	Yes 🗹	No 🗆	Not Present	
2. Is Chain of Custody complete?	Yes 🗹	No 🗆	Not Present	
3. How was the sample delivered?	Courier			
<u>Log In</u>				
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗆	NA 🗆	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗆		
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗆		
9. Was preservative added to bottles?	Yes	No 🗹	NA 🗆	•
10.VOA vials have zero headspace?	Yes 🗆	No 🗆	No VOA Vials 🗹	
11. Were any sample containers received broken?	Yes	No 🗹	# of preserved	
			bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗆	for pH: (<2 or	>12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗸	No 🗆	Adjusted?	S. P. C.
14. Is it clear what analyses were requested?	Yes 🗸	No 🗆		
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗆	Checked by:	
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified: Date			· · · · · · · · · · · · · · · · · · ·	
By Whom: Via:	l ☐ eMail ☐	Phone Fax	In Person	
Regarding:				
Client Instructions:				
17. Additional remarks:		5.700 9800-	2	1
18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By	1	
1 7.0 Good Yes]	

HALL ENVIRONMENTAL	SIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Fax 505-345-4107	Analysis Request			1 28	08 \ 8 (A(9bid (A)V-i	7,7) anoinA 808 9260B (VO 8270 (Sem	×	×	×	×	×	×	×	×		Thank you!		will be clearly notated on the analytical report.
HALLE	ANALYSIS	www.hallen	1901 Hawkins NE - Al	Tel. 505-345-3975				(G3	8310 (1.81) (1.40)	8 b bo bo	BTEX + Methor TPH (Methor HOETH (Methor THOEN) BGIO B310 (PNA B4NG) (PNA B4NG) (PNA										orke: Chlorides only.		wility. Any sub-contracted data v
Turn-Around Time:	X Standard	Project Name:	Corral Draw AQH Federal #1							emperature 77.0	er Preservativ HEAL No X + 1# e Type 1/0 2/2 E	1-402	1-40z022	-40z. -	1-40z	1-402.	1.40z	1-40z	1-4oz		Data Time Demarks:	Cepter 01/29/10 0900	Time: Relinquished by: Received by: Date I me Received by: Received by: Date I me Received by: Date
cord		Δ.	SS:	05 South 4th Street Artesia, NM 88210	575-513-8799 or 575-748-4111	agriffin@yatespetroleum.com		□ Level 4 (Full Validation)	100		me Matrix Sample Request ID	0.50 Co.soil 1'	2,	3.	4.	6,	.83	10,	10:42 Soil 12'			Time: Relinquished by: SCOR ON De Cault in	Time: Relinquished by: CO Relinquished by:
Chai	lient: Ya		failing Address:	05 South 4th	hone #:	mail or Fax#:	A/QC Package:] Standard	ccreditation:	J KELAP	Date	107/0016	1/27/2016	1/27/2016	1/27/2016)ate: Tim	Jate: Tin