



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

November 06, 2015

Amber Griffin

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

RE: Aparejo APA Battery

OrderNo.: 1510E63

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/30/2015 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 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1510E63

Date Reported: 11/6/2015

CLIENT: Yates Petroleum Corporation

Client Sample ID: APA 4-6

Project: Apache APA Battery

Collection Date: 10/28/2015 9:00:00 AM

Lab ID: 1510E63-001

Matrix: SOIL

Received Date: 10/30/2015 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/3/2015 10:51:35 PM	22117
Surr: DNOP	104	70-130		%REC	1	11/3/2015 10:51:35 PM	22117
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/2/2015 10:22:40 PM	22110
Surr: BFB	89.4	75.4-113		%REC	1	11/2/2015 10:22:40 PM	22110

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
	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		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1510E63

Date Reported: 11/6/2015

CLIENT: Yates Petroleum Corporation

Client Sample ID: APA 4-7

Project: Aparejo APA Battery

Collection Date: 10/28/2015 9:06:00 AM

Lab ID: 1510E63-002

Matrix: SOIL

Received Date: 10/30/2015 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/3/2015 11:18:30 PM	22117
Surr: DNOP	102	70-130		%REC	1	11/3/2015 11:18:30 PM	22117
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/2/2015 10:45:46 PM	22110
Surr: BFB	89.1	75.4-113		%REC	1	11/2/2015 10:45:46 PM	22110

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
	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		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1510E63

Date Reported: 11/6/2015

CLIENT: Yates Petroleum Corporation

Client Sample ID: APA 4-8

Project: Aparejo APA Battery

Collection Date: 10/28/2015 9:09:00 AM

Lab ID: 1510E63-003

Matrix: SOIL

Received Date: 10/30/2015 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/3/2015 11:45:36 PM	22117
Surr: DNOP	105	70-130		%REC	1	11/3/2015 11:45:36 PM	22117
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/2/2015 11:08:51 PM	22110
Surr: BFB	88.2	75.4-113		%REC	1	11/2/2015 11:08:51 PM	22110

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
	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#: 1510E63

06-Nov-15

Client: Yates Petroleum Corporation

Project: Aparejo APA Battery

Sample ID	MB-22137		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 22137		RunNo: 29954					
Prep Date:	11/3/2015		Analysis Date: 11/3/2015		SeqNo: 912449		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.7		10.00		97.2	70	130			

Sample ID	LCS-22137		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 22137		RunNo: 29954					
Prep Date:	11/3/2015		Analysis Date: 11/3/2015		SeqNo: 912452		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		5.000		102	70	130			

Sample ID	MB-22117		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	22117		RunNo:	29954				
Prep Date:	11/2/2015		Analysis Date:	11/3/2015		SeqNo:	912719		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Surr: DNOP	12		10.00		125	70	130				

Sample ID	LCS-22117		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 22117		RunNo: 29954					
Prep Date:	11/2/2015		Analysis Date: 11/3/2015		SeqNo: 912857		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	10	50.00	0	118	57.4	139			
Surr: DNOP	6.4		5.000		129	70	130			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510E63

06-Nov-15

Client: Yates Petroleum Corporation

Project: Aparejo APA Battery

Sample ID	MB-22110		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 22110		RunNo: 29948					
Prep Date:	10/30/2015		Analysis Date: 11/2/2015		SeqNo: 912103		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		89.1	75.4	113			

Sample ID	LCS-22110		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 22110		RunNo: 29948					
Prep Date:	10/30/2015		Analysis Date: 11/2/2015		SeqNo: 912104		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	79.6	122			
Surr: BFB	980		1000		98.1	75.4	113			

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

Sample Log-In Check List

Client Name: Yates Petroleum Corpora

Work Order Number: 1510E63

RcptNo: 1

Received by/date:	CS	10/30/15
Logged By:	Celina Sessa	10/30/2015 9:45:00 AM
Completed By:	Celina Sessa	10/30/2015 11:18:40 AM
Reviewed By:	<i>[Signature]</i>	10/30/15

Chain of Custody

- Custody seals intact on sample bottles? Yes ☒ No ☐ Not Present ☒
- Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
- How was the sample delivered? Courier

Log In

- Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
- Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
- Sample(s) in proper container(s)? Yes ☒ No ☐
- Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
- Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
- Was preservative added to bottles? Yes ☐ No ☒ NA ☐
- VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
- Were any sample containers received broken? Yes ☐ No ☒
- Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
- Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
- Is it clear what analyses were requested? Yes ☒ No ☐
- Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

- Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good	Yes			



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Amber Griffin

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

RE: Aparejo APA Battery

OrderNo.: 1510E63

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/30/2015 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 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Analytical ReportLab Order: **1510E63**Date Reported: **11/6/2015****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Yates Petroleum Corporation
Project: Aparejo APA Battery**Lab Order:** 1510E63**Lab ID:** 1510E63-001**Collection Date:** 10/28/2015 9:00:00 AM**Client Sample ID:** APA 4-6**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	4200	150		mg/Kg	100	11/5/2015 5:45:38 PM	22180

Lab ID: 1510E63-002**Collection Date:** 10/28/2015 9:06:00 AM**Client Sample ID:** APA 4-7**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	3400	150		mg/Kg	100	11/5/2015 5:58:02 PM	22180

Lab ID: 1510E63-003**Collection Date:** 10/28/2015 9:09:00 AM**Client Sample ID:** APA 4-8**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1800	75		mg/Kg	50	11/5/2015 6:10:27 PM	22180

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
	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#: 1510E63

06-Nov-15

Client: Yates Petroleum Corporation

Project: Aparejo APA Battery

Sample ID	MB-22180		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	22180		RunNo:	30017				
Prep Date:	11/4/2015		Analysis Date:	11/4/2015		SeqNo:	914569		Units:		mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-22180		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 22180		RunNo: 30017					
Prep Date:	11/4/2015		Analysis Date: 11/4/2015		SeqNo: 914570		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.2	90	110			

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

Sample Log-In Check List

Client Name: Yates Petroleum Corpora

Work Order Number: 1510E63

RcptNo: 1

Received by/date:

CS 10/30/15

Logged By: Celina Sessa

10/30/2015 9:45:00 AM

Celina Sessa

Completed By: Celina Sessa

10/30/2015 11:18:40 AM

Celina Sessa

Reviewed By:

[Signature] 10/30/15 *Ja 10/30/15*

Chain of Custody

1. 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

Log In

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 ☒

12. Does paperwork match bottle labels?

(Note discrepancies on chain of custody)

Yes ☒

No ☐

13. Are matrices correctly identified on Chain of Custody?

Yes ☒

No ☐

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 ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

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: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good	Yes			



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Albuquerque, NM 87109
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November 06, 2015

Amber Griffin

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

RE: Aparejo APA Battery

OrderNo.: 1510E64

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 5 sample(s) on 10/30/2015 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 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1510E64

Date Reported: 11/6/2015

CLIENT: Yates Petroleum Corporation
Project: Aparejo APA Battery

Lab Order: 1510E64

Lab ID: 1510E64-001

Collection Date: 10/28/2015 9:28:00 AM

Client Sample ID: APA 2-6

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	840	30		mg/Kg	20	11/4/2015 6:05:06 PM	22188

Lab ID: 1510E64-002

Collection Date: 10/28/2015 9:31:00 AM

Client Sample ID: APA 2-7

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	190	30		mg/Kg	20	11/4/2015 6:42:19 PM	22188

Lab ID: 1510E64-003

Collection Date: 10/28/2015 9:34:00 AM

Client Sample ID: APA 2-8

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	330	30		mg/Kg	20	11/4/2015 6:54:44 PM	22188

Lab ID: 1510E64-004

Collection Date: 10/28/2015 9:38:00 AM

Client Sample ID: APA 2-9

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	170	30		mg/Kg	20	11/4/2015 7:07:08 PM	22188

Lab ID: 1510E64-005

Collection Date: 10/28/2015 9:41:00 AM

Client Sample ID: APA 2-10

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	190	30		mg/Kg	20	11/4/2015 7:19:33 PM	22188

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
	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#: 1510E64

06-Nov-15

Client: Yates Petroleum Corporation

Project: Aparejo APA Battery

Sample ID	MB-22188		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	22188		RunNo:	30017				
Prep Date:	11/4/2015		Analysis Date:	11/4/2015		SeqNo:	914596		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-22188		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 22188		RunNo: 30017					
Prep Date:	11/4/2015		Analysis Date: 11/4/2015		SeqNo: 914597		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	90	110			

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

Sample Log-In Check List

Client Name: Yates Petroleum Corpora

Work Order Number: 1510E64

Rcp/No: 1

Received by/date:	CS	10/30/15
Logged By:	Celina Sessa	10/30/2015 9:45:00 AM
Completed By:	Celina Sessa	10/30/2015 11:22:21 AM
Reviewed By:	<i>[Signature]</i>	10/30/15

Chain of Custody

- Custody seals intact on sample bottles? Yes ☒ No ☐ Not-Present ☒
- Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
- How was the sample delivered? Courier

Log In

- Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
- Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
- Sample(s) in proper container(s)? Yes ☒ No ☐
- Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
- Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
- Was preservative added to bottles? Yes ☐ No ☒ NA ☐
- VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
- Were any sample containers received broken? Yes ☐ No ☒
- Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
- Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
- Is it clear what analyses were requested? Yes ☒ No ☐
- Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

- Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good	Yes			



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

July 23, 2015

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

RE: Aparejo APA Battery/2RP-3035

OrderNo.: 1507796

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 12 sample(s) on 7/17/2015 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 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1507796**

Date Reported: **7/23/2015**

CLIENT: Yates Petroleum

Client Sample ID: Apa 1 - Surface

Project: Aparejo APA Battery/2RP-3035

Collection Date: 7/15/2015 8:00:00 AM

Lab ID: 1507796-001

Matrix: SOIL

Received Date: 7/17/2015 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/21/2015 4:21:17 PM	20309
Surr: DNOP	58.9	57.9-140		%REC	1	7/21/2015 4:21:17 PM	20309
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/21/2015 2:10:23 AM	20308
Surr: BFB	92.4	75.4-113		%REC	1	7/21/2015 2:10:23 AM	20308
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/21/2015 2:10:23 AM	20308
Toluene	ND	0.050		mg/Kg	1	7/21/2015 2:10:23 AM	20308
Ethylbenzene	ND	0.050		mg/Kg	1	7/21/2015 2:10:23 AM	20308
Xylenes, Total	ND	0.10		mg/Kg	1	7/21/2015 2:10:23 AM	20308
Surr: 4-Bromofluorobenzene	97.8	80-120		%REC	1	7/21/2015 2:10:23 AM	20308

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
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1507796**

Date Reported: **7/23/2015**

CLIENT: Yates Petroleum

Client Sample ID: Apa 1 - 1'

Project: Aparejo APA Battery/2RP-3035

Collection Date: 7/15/2015 8:30:00 AM

Lab ID: 1507796-002

Matrix: SOIL

Received Date: 7/17/2015 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/21/2015 4:42:46 PM	20309
Surr: DNOP	90.8	57.9-140		%REC	1	7/21/2015 4:42:46 PM	20309
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/21/2015 2:39:02 AM	20308
Surr: BFB	92.4	75.4-113		%REC	1	7/21/2015 2:39:02 AM	20308
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	7/21/2015 2:39:02 AM	20308
Toluene	ND	0.047		mg/Kg	1	7/21/2015 2:39:02 AM	20308
Ethylbenzene	ND	0.047		mg/Kg	1	7/21/2015 2:39:02 AM	20308
Xylenes, Total	ND	0.094		mg/Kg	1	7/21/2015 2:39:02 AM	20308
Surr: 4-Bromofluorobenzene	97.6	80-120		%REC	1	7/21/2015 2:39:02 AM	20308

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	Page 2 of 15
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1507796**

Date Reported: **7/23/2015**

CLIENT: Yates Petroleum

Client Sample ID: Apa 1 - 2'

Project: Aparejo APA Battery/2RP-3035

Collection Date: 7/15/2015 8:40:00 AM

Lab ID: 1507796-003

Matrix: SOIL

Received Date: 7/17/2015 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/21/2015 5:04:08 PM	20309
Surr: DNOP	102	57.9-140		%REC	1	7/21/2015 5:04:08 PM	20309
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/21/2015 3:36:17 AM	20308
Surr: BFB	90.7	75.4-113		%REC	1	7/21/2015 3:36:17 AM	20308
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	7/21/2015 3:36:17 AM	20308
Toluene	ND	0.047		mg/Kg	1	7/21/2015 3:36:17 AM	20308
Ethylbenzene	ND	0.047		mg/Kg	1	7/21/2015 3:36:17 AM	20308
Xylenes, Total	ND	0.094		mg/Kg	1	7/21/2015 3:36:17 AM	20308
Surr: 4-Bromofluorobenzene	94.3	80-120		%REC	1	7/21/2015 3:36:17 AM	20308

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
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1507796**

Date Reported: **7/23/2015**

CLIENT: Yates Petroleum

Client Sample ID: Apa 2 - Surface

Project: Aparejo APA Battery/2RP-3035

Collection Date: 7/15/2015 8:05:00 AM

Lab ID: 1507796-004

Matrix: SOIL

Received Date: 7/17/2015 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	5300	99		mg/Kg	10	7/21/2015 1:08:52 PM	20309
Surr: DNOP	0	57.9-140	S	%REC	10	7/21/2015 1:08:52 PM	20309
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	7/21/2015 10:25:45 AM	20308
Surr: BFB	95.3	75.4-113		%REC	5	7/21/2015 10:25:45 AM	20308
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	7/21/2015 10:25:45 AM	20308
Toluene	ND	0.25		mg/Kg	5	7/21/2015 10:25:45 AM	20308
Ethylbenzene	ND	0.25		mg/Kg	5	7/21/2015 10:25:45 AM	20308
Xylenes, Total	ND	0.50		mg/Kg	5	7/21/2015 10:25:45 AM	20308
Surr: 4-Bromofluorobenzene	98.5	80-120		%REC	5	7/21/2015 10:25:45 AM	20308

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
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1507796**

Date Reported: **7/23/2015**

CLIENT: Yates Petroleum

Client Sample ID: Apa 2 - 1'

Project: Aparejo APA Battery/2RP-3035

Collection Date: 7/15/2015 8:50:00 AM

Lab ID: 1507796-005

Matrix: SOIL

Received Date: 7/17/2015 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	2000	100		mg/Kg	10	7/21/2015 2:12:52 PM	20309
Surr: DNOP	0	57.9-140	S	%REC	10	7/21/2015 2:12:52 PM	20309
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	310	4.8		mg/Kg	1	7/21/2015 10:54:29 AM	20308
Surr: BFB	1290	75.4-113	S	%REC	1	7/21/2015 10:54:29 AM	20308
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.31	0.048		mg/Kg	1	7/21/2015 10:54:29 AM	20308
Toluene	7.8	0.48		mg/Kg	10	7/22/2015 9:41:25 PM	20308
Ethylbenzene	8.7	0.48		mg/Kg	10	7/22/2015 9:41:25 PM	20308
Xylenes, Total	16	0.95		mg/Kg	10	7/22/2015 9:41:25 PM	20308
Surr: 4-Bromofluorobenzene	294	80-120	S	%REC	1	7/21/2015 10:54:29 AM	20308

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
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1507796**

Date Reported: **7/23/2015**

CLIENT: Yates Petroleum

Client Sample ID: Apa 2 - 2'

Project: Aparejo APA Battery/2RP-3035

Collection Date: 7/15/2015 9:00:00 AM

Lab ID: 1507796-006

Matrix: SOIL

Received Date: 7/17/2015 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	67	10		mg/Kg	1	7/21/2015 5:25:30 PM	20309
Surr: DNOP	88.9	57.9-140		%REC	1	7/21/2015 5:25:30 PM	20309
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	26	9.9		mg/Kg	2	7/21/2015 12:20:51 PM	20308
Surr: BFB	150	75.4-113	S	%REC	2	7/21/2015 12:20:51 PM	20308
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.099		mg/Kg	2	7/21/2015 12:20:51 PM	20308
Toluene	0.39	0.099		mg/Kg	2	7/21/2015 12:20:51 PM	20308
Ethylbenzene	0.60	0.099		mg/Kg	2	7/21/2015 12:20:51 PM	20308
Xylenes, Total	0.86	0.20		mg/Kg	2	7/21/2015 12:20:51 PM	20308
Surr: 4-Bromofluorobenzene	112	80-120		%REC	2	7/21/2015 12:20:51 PM	20308

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
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1507796**

Date Reported: **7/23/2015**

CLIENT: Yates Petroleum

Client Sample ID: Apa 3 - Surface

Project: Aparejo APA Battery/2RP-3035

Collection Date: 7/15/2015 8:10:00 AM

Lab ID: 1507796-007

Matrix: SOIL

Received Date: 7/17/2015 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	5700	99		mg/Kg	10	7/21/2015 2:55:45 PM	20309
Surr: DNOP	0	57.9-140	S	%REC	10	7/21/2015 2:55:45 PM	20309
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	60	9.9		mg/Kg	2	7/21/2015 12:49:37 PM	20308
Surr: BFB	280	75.4-113	S	%REC	2	7/21/2015 12:49:37 PM	20308
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.099		mg/Kg	2	7/21/2015 12:49:37 PM	20308
Toluene	ND	0.099		mg/Kg	2	7/21/2015 12:49:37 PM	20308
Ethylbenzene	ND	0.099		mg/Kg	2	7/21/2015 12:49:37 PM	20308
Xylenes, Total	0.53	0.20		mg/Kg	2	7/21/2015 12:49:37 PM	20308
Surr: 4-Bromofluorobenzene	123	80-120	S	%REC	2	7/21/2015 12:49:37 PM	20308

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
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1507796**

Date Reported: **7/23/2015**

CLIENT: Yates Petroleum

Client Sample ID: Apa 3 - 1'

Project: Aparejo APA Battery/2RP-3035

Collection Date: 7/15/2015 9:20:00 AM

Lab ID: 1507796-008

Matrix: SOIL

Received Date: 7/17/2015 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	1400	100		mg/Kg	10	7/21/2015 3:38:23 PM	20309
Surr: DNOP	0	57.9-140	S	%REC	10	7/21/2015 3:38:23 PM	20309
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	13	4.7		mg/Kg	1	7/21/2015 1:18:25 PM	20308
Surr: BFB	178	75.4-113	S	%REC	1	7/21/2015 1:18:25 PM	20308
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	7/21/2015 1:18:25 PM	20308
Toluene	ND	0.047		mg/Kg	1	7/21/2015 1:18:25 PM	20308
Ethylbenzene	ND	0.047		mg/Kg	1	7/21/2015 1:18:25 PM	20308
Xylenes, Total	ND	0.094		mg/Kg	1	7/21/2015 1:18:25 PM	20308
Surr: 4-Bromofluorobenzene	111	80-120		%REC	1	7/21/2015 1:18:25 PM	20308

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
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1507796**

Date Reported: **7/23/2015**

CLIENT: Yates Petroleum

Client Sample ID: Apa 3 - 2'

Project: Aparejo APA Battery/2RP-3035

Collection Date: 7/15/2015 9:30:00 AM

Lab ID: 1507796-009

Matrix: SOIL

Received Date: 7/17/2015 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	220	9.9		mg/Kg	1	7/21/2015 1:39:04 PM	20310
Surr: DNOP	112	57.9-140		%REC	1	7/21/2015 1:39:04 PM	20310
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/21/2015 1:47:11 PM	20308
Surr: BFB	94.1	75.4-113		%REC	1	7/21/2015 1:47:11 PM	20308
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	7/21/2015 1:47:11 PM	20308
Toluene	ND	0.049		mg/Kg	1	7/21/2015 1:47:11 PM	20308
Ethylbenzene	ND	0.049		mg/Kg	1	7/21/2015 1:47:11 PM	20308
Xylenes, Total	ND	0.099		mg/Kg	1	7/21/2015 1:47:11 PM	20308
Surr: 4-Bromofluorobenzene	98.6	80-120		%REC	1	7/21/2015 1:47:11 PM	20308

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
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1507796**

Date Reported: **7/23/2015**

CLIENT: Yates Petroleum

Client Sample ID: Apa 4 - Surface

Project: Aparejo APA Battery/2RP-3035

Collection Date: 7/15/2015 8:15:00 AM

Lab ID: 1507796-010

Matrix: SOIL

Received Date: 7/17/2015 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	980	100		mg/Kg	10	7/21/2015 3:00:36 PM	20310
Surr: DNOP	0	57.9-140	S	%REC	10	7/21/2015 3:00:36 PM	20310
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/21/2015 2:15:57 PM	20308
Surr: BFB	101	75.4-113		%REC	1	7/21/2015 2:15:57 PM	20308
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	7/21/2015 2:15:57 PM	20308
Toluene	ND	0.048		mg/Kg	1	7/21/2015 2:15:57 PM	20308
Ethylbenzene	ND	0.048		mg/Kg	1	7/21/2015 2:15:57 PM	20308
Xylenes, Total	ND	0.095		mg/Kg	1	7/21/2015 2:15:57 PM	20308
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	7/21/2015 2:15:57 PM	20308

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
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1507796**

Date Reported: **7/23/2015**

CLIENT: Yates Petroleum

Client Sample ID: Apa 4 - 1'

Project: Aparejo APA Battery/2RP-3035

Collection Date: 7/15/2015 9:40:00 AM

Lab ID: 1507796-011

Matrix: SOIL

Received Date: 7/17/2015 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	9.8	9.8		mg/Kg	1	7/21/2015 3:27:35 PM	20310
Surr: DNOP	112	57.9-140		%REC	1	7/21/2015 3:27:35 PM	20310
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/21/2015 2:44:39 PM	20308
Surr: BFB	92.1	75.4-113		%REC	1	7/21/2015 2:44:39 PM	20308
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	7/21/2015 2:44:39 PM	20308
Toluene	ND	0.049		mg/Kg	1	7/21/2015 2:44:39 PM	20308
Ethylbenzene	ND	0.049		mg/Kg	1	7/21/2015 2:44:39 PM	20308
Xylenes, Total	ND	0.098		mg/Kg	1	7/21/2015 2:44:39 PM	20308
Surr: 4-Bromofluorobenzene	96.0	80-120		%REC	1	7/21/2015 2:44:39 PM	20308

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	Page 11 of 15
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1507796**

Date Reported: **7/23/2015**

CLIENT: Yates Petroleum

Client Sample ID: Apa 4 - 2'

Project: Aparejo APA Battery/2RP-3035

Collection Date: 7/15/2015 9:50:00 AM

Lab ID: 1507796-012

Matrix: SOIL

Received Date: 7/17/2015 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	58	9.9		mg/Kg	1	7/21/2015 3:54:24 PM	20310
Surr: DNOP	112	57.9-140		%REC	1	7/21/2015 3:54:24 PM	20310
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/21/2015 3:13:18 PM	20308
Surr: BFB	92.6	75.4-113		%REC	1	7/21/2015 3:13:18 PM	20308
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	7/21/2015 3:13:18 PM	20308
Toluene	ND	0.049		mg/Kg	1	7/21/2015 3:13:18 PM	20308
Ethylbenzene	ND	0.049		mg/Kg	1	7/21/2015 3:13:18 PM	20308
Xylenes, Total	ND	0.097		mg/Kg	1	7/21/2015 3:13:18 PM	20308
Surr: 4-Bromofluorobenzene	98.1	80-120		%REC	1	7/21/2015 3:13:18 PM	20308

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	Page 12 of 15
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1507796

23-Jul-15

Client: Yates Petroleum

Project: Aparejo APA Battery/2RP-3035

Sample ID	MB-20339		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 20339		RunNo: 27629					
Prep Date:	7/21/2015		Analysis Date: 7/21/2015		SeqNo: 829994		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		104	57.9	140			

Sample ID	LCS-20339		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 20339		RunNo: 27629					
Prep Date:	7/21/2015		Analysis Date: 7/21/2015		SeqNo: 830004		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.2		5.000		104	57.9	140			

Sample ID	MB-20309		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	20309		RunNo:	27634				
Prep Date:	7/17/2015		Analysis Date:	7/21/2015		SeqNo:	830062		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Surr: DNOP	10		10.00		103	57.9	140				

Sample ID	LCS-20309		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 20309		RunNo: 27634					
Prep Date:	7/17/2015		Analysis Date: 7/21/2015		SeqNo: 830063		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	57.4	139			
Surr: DNOP	5.0		5.000		100	57.9	140			

Sample ID	MB-20310		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 20310		RunNo: 27629					
Prep Date:	7/17/2015		Analysis Date: 7/21/2015		SeqNo: 830112		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		107	57.9	140			

Sample ID	LCS-20310		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 20310		RunNo: 27629					
Prep Date:	7/17/2015		Analysis Date: 7/21/2015		SeqNo: 830113		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	99.0	57.4	139			
Surr: DNOP	5.4		5.000		107	57.9	140			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1507796

23-Jul-15

Client: Yates Petroleum

Project: Aparejo APA Battery/2RP-3035

Sample ID	MB-20308		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 20308		RunNo: 27604					
Prep Date:	7/17/2015		Analysis Date: 7/20/2015		SeqNo: 829387		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.4	75.4	113			

Sample ID	LCS-20308		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 20308		RunNo: 27604					
Prep Date:	7/17/2015		Analysis Date: 7/20/2015		SeqNo: 829388		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.5	79.6	122			
Surr: BFB	990		1000		98.5	75.4	113			

Sample ID	MB-20329		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 20329		RunNo: 27640					
Prep Date:	7/20/2015		Analysis Date: 7/21/2015		SeqNo: 830303		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	920		1000		92.2	75.4	113			

Sample ID	LCS-20329		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 20329		RunNo: 27640					
Prep Date:	7/20/2015		Analysis Date: 7/21/2015		SeqNo: 830304		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	960		1000		96.4	75.4	113			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1507796

23-Jul-15

Client: Yates Petroleum

Project: Aparejo APA Battery/2RP-3035

Sample ID	MB-20308		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	20308		RunNo:	27604			
Prep Date:	7/17/2015		Analysis Date:	7/20/2015		SeqNo:	829414		Units: mg/Kg	
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	0.97		1.000		96.8	80	120			

Sample ID	LCS-20308		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	20308		RunNo:	27604			
Prep Date:	7/17/2015		Analysis Date:	7/20/2015		SeqNo:	829419		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	102	76.6	128			
Toluene	0.97	0.050	1.000	0	96.7	75	124			
Ethylbenzene	0.99	0.050	1.000	0	99.3	79.5	126			
Xylenes, Total	2.9	0.10	3.000	0	98.3	78.8	124			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID	MB-20329		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	20329		RunNo:	27640			
Prep Date:	7/20/2015		Analysis Date:	7/21/2015		SeqNo:	830338		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Sample ID	LCS-20329		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	20329		RunNo:	27640			
Prep Date:	7/20/2015		Analysis Date:	7/21/2015		SeqNo:	830339		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH Not In Range
RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Yates Petroleum Corpora

Work Order Number: 1507796

RcptNo: 1

Received by/date: CS 07/17/15

Logged By: Celina Sessa

7/17/2015 10:00:00 AM

Celina Sessa

Completed By: Celina Sessa

7/17/2015 11:53:43 AM

Celina Sessa

Reviewed By: IO
07/17/15

Chain of Custody

1. 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

Log In

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 ☒

12. Does paperwork match bottle labels?

Yes ☒

No ☐

(Note discrepancies on chain of custody)

13. Are matrices correctly identified on Chain of Custody?

Yes ☒

No ☐

14. Is it clear what analyses were requested?

Yes ☒

No ☐

15. Were all holding times able to be met?

Yes ☒

No ☐

(if no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

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:

☐

eMail

☐

Phone

☐

Fax

☐

In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			



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

September 28, 2015

Amber Griffin

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

RE: Aparejo APA Battery

OrderNo.: 1509898

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 15 sample(s) on 9/18/2015 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 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1509898**

Date Reported: **9/28/2015**

CLIENT: Yates Petroleum Corporation

Client Sample ID: 2-1'

Project: Aparejo APA Battery

Collection Date: 9/16/2015 8:26:00 AM

Lab ID: 1509898-001

Matrix: SOIL

Received Date: 9/18/2015 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	170	24	D	mg/Kg	5	9/25/2015 9:00:16 PM	21405
Surr: BFB	98.5	70-130	D	%REC	5	9/25/2015 9:00:16 PM	21405
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	230	100		mg/Kg	10	9/22/2015 3:40:25 PM	21400
Surr: DNOP	0	57.9-140	S	%REC	10	9/22/2015 3:40:25 PM	21400
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	0.16	0.12	D	mg/Kg	5	9/25/2015 9:00:16 PM	21405
Toluene	3.8	0.24	D	mg/Kg	5	9/25/2015 9:00:16 PM	21405
Ethylbenzene	3.6	0.24	D	mg/Kg	5	9/25/2015 9:00:16 PM	21405
Xylenes, Total	6.5	0.48	D	mg/Kg	5	9/25/2015 9:00:16 PM	21405
Surr: 1,2-Dichloroethane-d4	100	70-130	D	%REC	5	9/25/2015 9:00:16 PM	21405
Surr: 4-Bromofluorobenzene	94.4	70-130	D	%REC	5	9/25/2015 9:00:16 PM	21405
Surr: Dibromofluoromethane	109	70-130	D	%REC	5	9/25/2015 9:00:16 PM	21405
Surr: Toluene-d8	96.0	70-130	D	%REC	5	9/25/2015 9:00:16 PM	21405

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
	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		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1509898**

Date Reported: **9/28/2015**

CLIENT: Yates Petroleum Corporation

Client Sample ID: 2-2'

Project: Aparejo APA Battery

Collection Date: 9/16/2015 8:27:00 AM

Lab ID: 1509898-002

Matrix: SOIL

Received Date: 9/18/2015 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/26/2015 12:40:01 AM	21405
Surr: BFB	100	70-130		%REC	1	9/26/2015 12:40:01 AM	21405
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	230	9.7		mg/Kg	1	9/22/2015 4:01:59 PM	21400
Surr: DNOP	101	57.9-140		%REC	1	9/22/2015 4:01:59 PM	21400
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.048		mg/Kg	1	9/26/2015 12:40:01 AM	21405
Toluene	0.069	0.048		mg/Kg	1	9/26/2015 12:40:01 AM	21405
Ethylbenzene	ND	0.048		mg/Kg	1	9/26/2015 12:40:01 AM	21405
Xylenes, Total	0.14	0.096		mg/Kg	1	9/26/2015 12:40:01 AM	21405
Surr: 1,2-Dichloroethane-d4	96.1	70-130		%REC	1	9/26/2015 12:40:01 AM	21405
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	9/26/2015 12:40:01 AM	21405
Surr: Dibromofluoromethane	108	70-130		%REC	1	9/26/2015 12:40:01 AM	21405
Surr: Toluene-d8	98.6	70-130		%REC	1	9/26/2015 12:40:01 AM	21405

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
	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		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1509898**

Date Reported: **9/28/2015**

CLIENT: Yates Petroleum Corporation

Client Sample ID: 2-3'

Project: Aparejo APA Battery

Collection Date: 9/16/2015 8:29:00 AM

Lab ID: 1509898-003

Matrix: SOIL

Received Date: 9/18/2015 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/26/2015 2:02:29 AM	21405
Surr: BFB	97.2	70-130		%REC	1	9/26/2015 2:02:29 AM	21405
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/22/2015 4:23:29 PM	21400
Surr: DNOP	89.0	57.9-140		%REC	1	9/22/2015 4:23:29 PM	21400
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	0.16	0.050		mg/Kg	1	9/26/2015 2:02:29 AM	21405
Toluene	0.24	0.050		mg/Kg	1	9/26/2015 2:02:29 AM	21405
Ethylbenzene	ND	0.050		mg/Kg	1	9/26/2015 2:02:29 AM	21405
Xylenes, Total	ND	0.099		mg/Kg	1	9/26/2015 2:02:29 AM	21405
Surr: 1,2-Dichloroethane-d4	98.2	70-130		%REC	1	9/26/2015 2:02:29 AM	21405
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	9/26/2015 2:02:29 AM	21405
Surr: Dibromofluoromethane	106	70-130		%REC	1	9/26/2015 2:02:29 AM	21405
Surr: Toluene-d8	96.7	70-130		%REC	1	9/26/2015 2:02:29 AM	21405

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
	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		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1509898**

Date Reported: **9/28/2015**

CLIENT: Yates Petroleum Corporation

Client Sample ID: 2-4'

Project: Aparejo APA Battery

Collection Date: 9/16/2015 8:32:00 AM

Lab ID: 1509898-004

Matrix: SOIL

Received Date: 9/18/2015 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/26/2015 2:29:57 AM	21405
Surr: BFB	95.1	70-130		%REC	1	9/26/2015 2:29:57 AM	21405
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/22/2015 4:45:02 PM	21400
Surr: DNOP	85.1	57.9-140		%REC	1	9/22/2015 4:45:02 PM	21400
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	0.18	0.048		mg/Kg	1	9/26/2015 2:29:57 AM	21405
Toluene	0.18	0.048		mg/Kg	1	9/26/2015 2:29:57 AM	21405
Ethylbenzene	ND	0.048		mg/Kg	1	9/26/2015 2:29:57 AM	21405
Xylenes, Total	ND	0.096		mg/Kg	1	9/26/2015 2:29:57 AM	21405
Surr: 1,2-Dichloroethane-d4	97.1	70-130		%REC	1	9/26/2015 2:29:57 AM	21405
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	9/26/2015 2:29:57 AM	21405
Surr: Dibromofluoromethane	108	70-130		%REC	1	9/26/2015 2:29:57 AM	21405
Surr: Toluene-d8	92.3	70-130		%REC	1	9/26/2015 2:29:57 AM	21405

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
	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		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1509898**

Date Reported: **9/28/2015**

CLIENT: Yates Petroleum Corporation

Client Sample ID: 2-5'

Project: Aparejo APA Battery

Collection Date: 9/16/2015 8:34:00 AM

Lab ID: 1509898-005

Matrix: SOIL

Received Date: 9/18/2015 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	12	4.9		mg/Kg	1	9/26/2015 2:57:26 AM	21405
Surr: BFB	104	70-130		%REC	1	9/26/2015 2:57:26 AM	21405
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	45	9.8		mg/Kg	1	9/22/2015 5:06:35 PM	21400
Surr: DNOP	92.9	57.9-140		%REC	1	9/22/2015 5:06:35 PM	21400
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	0.27	0.049		mg/Kg	1	9/26/2015 2:57:26 AM	21405
Toluene	0.64	0.049		mg/Kg	1	9/26/2015 2:57:26 AM	21405
Ethylbenzene	0.34	0.049		mg/Kg	1	9/26/2015 2:57:26 AM	21405
Xylenes, Total	0.46	0.097		mg/Kg	1	9/26/2015 2:57:26 AM	21405
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	1	9/26/2015 2:57:26 AM	21405
Surr: 4-Bromofluorobenzene	93.4	70-130		%REC	1	9/26/2015 2:57:26 AM	21405
Surr: Dibromofluoromethane	111	70-130		%REC	1	9/26/2015 2:57:26 AM	21405
Surr: Toluene-d8	97.3	70-130		%REC	1	9/26/2015 2:57:26 AM	21405

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
	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		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1509898**

Date Reported: **9/28/2015**

CLIENT: Yates Petroleum Corporation

Client Sample ID: 3-1'

Project: Aparejo APA Battery

Collection Date: 9/16/2015 8:40:00 AM

Lab ID: 1509898-006

Matrix: SOIL

Received Date: 9/18/2015 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/26/2015 3:24:56 AM	21405
Surr: BFB	102	70-130		%REC	1	9/26/2015 3:24:56 AM	21405
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/22/2015 5:28:13 PM	21400
Surr: DNOP	92.4	57.9-140		%REC	1	9/22/2015 5:28:13 PM	21400
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.048		mg/Kg	1	9/26/2015 3:24:56 AM	21405
Toluene	ND	0.048		mg/Kg	1	9/26/2015 3:24:56 AM	21405
Ethylbenzene	ND	0.048		mg/Kg	1	9/26/2015 3:24:56 AM	21405
Xylenes, Total	ND	0.096		mg/Kg	1	9/26/2015 3:24:56 AM	21405
Surr: 1,2-Dichloroethane-d4	94.0	70-130		%REC	1	9/26/2015 3:24:56 AM	21405
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	9/26/2015 3:24:56 AM	21405
Surr: Dibromofluoromethane	108	70-130		%REC	1	9/26/2015 3:24:56 AM	21405
Surr: Toluene-d8	96.0	70-130		%REC	1	9/26/2015 3:24:56 AM	21405

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
	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		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1509898**

Date Reported: **9/28/2015**

CLIENT: Yates Petroleum Corporation

Client Sample ID: 3-2'

Project: Aparejo APA Battery

Collection Date: 9/16/2015 8:41:00 AM

Lab ID: 1509898-007

Matrix: SOIL

Received Date: 9/18/2015 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/26/2015 3:52:25 AM	21405
Surr: BFB	99.2	70-130		%REC	1	9/26/2015 3:52:25 AM	21405
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/22/2015 5:49:48 PM	21400
Surr: DNOP	93.6	57.9-140		%REC	1	9/22/2015 5:49:48 PM	21400
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.047		mg/Kg	1	9/26/2015 3:52:25 AM	21405
Toluene	ND	0.047		mg/Kg	1	9/26/2015 3:52:25 AM	21405
Ethylbenzene	ND	0.047		mg/Kg	1	9/26/2015 3:52:25 AM	21405
Xylenes, Total	ND	0.094		mg/Kg	1	9/26/2015 3:52:25 AM	21405
Surr: 1,2-Dichloroethane-d4	98.9	70-130		%REC	1	9/26/2015 3:52:25 AM	21405
Surr: 4-Bromofluorobenzene	98.7	70-130		%REC	1	9/26/2015 3:52:25 AM	21405
Surr: Dibromofluoromethane	108	70-130		%REC	1	9/26/2015 3:52:25 AM	21405
Surr: Toluene-d8	94.3	70-130		%REC	1	9/26/2015 3:52:25 AM	21405

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
	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		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1509898**

Date Reported: **9/28/2015**

CLIENT: Yates Petroleum Corporation

Client Sample ID: 3-3'

Project: Aparejo APA Battery

Collection Date: 9/16/2015 8:43:00 AM

Lab ID: 1509898-008

Matrix: SOIL

Received Date: 9/18/2015 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/26/2015 4:19:50 AM	21405
Surr: BFB	107	70-130		%REC	1	9/26/2015 4:19:50 AM	21405
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/22/2015 6:11:26 PM	21400
Surr: DNOP	94.6	57.9-140		%REC	1	9/22/2015 6:11:26 PM	21400
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.050		mg/Kg	1	9/26/2015 4:19:50 AM	21405
Toluene	ND	0.050		mg/Kg	1	9/26/2015 4:19:50 AM	21405
Ethylbenzene	ND	0.050		mg/Kg	1	9/26/2015 4:19:50 AM	21405
Xylenes, Total	ND	0.10		mg/Kg	1	9/26/2015 4:19:50 AM	21405
Surr: 1,2-Dichloroethane-d4	95.2	70-130		%REC	1	9/26/2015 4:19:50 AM	21405
Surr: 4-Bromofluorobenzene	100	70-130		%REC	1	9/26/2015 4:19:50 AM	21405
Surr: Dibromofluoromethane	105	70-130		%REC	1	9/26/2015 4:19:50 AM	21405
Surr: Toluene-d8	95.7	70-130		%REC	1	9/26/2015 4:19:50 AM	21405

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
	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		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1509898

Date Reported: 9/28/2015

CLIENT: Yates Petroleum Corporation

Client Sample ID: 3-4'

Project: Aparejo APA Battery

Collection Date: 9/16/2015 8:46:00 AM

Lab ID: 1509898-009

Matrix: SOIL

Received Date: 9/18/2015 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/26/2015 4:47:09 AM	21405
Surr: BFB	107	70-130		%REC	1	9/26/2015 4:47:09 AM	21405
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/22/2015 6:54:35 PM	21400
Surr: DNOP	88.9	57.9-140		%REC	1	9/22/2015 6:54:35 PM	21400
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.049		mg/Kg	1	9/26/2015 4:47:09 AM	21405
Toluene	ND	0.049		mg/Kg	1	9/26/2015 4:47:09 AM	21405
Ethylbenzene	ND	0.049		mg/Kg	1	9/26/2015 4:47:09 AM	21405
Xylenes, Total	ND	0.098		mg/Kg	1	9/26/2015 4:47:09 AM	21405
Surr: 1,2-Dichloroethane-d4	93.2	70-130		%REC	1	9/26/2015 4:47:09 AM	21405
Surr: 4-Bromofluorobenzene	98.5	70-130		%REC	1	9/26/2015 4:47:09 AM	21405
Surr: Dibromofluoromethane	107	70-130		%REC	1	9/26/2015 4:47:09 AM	21405
Surr: Toluene-d8	95.4	70-130		%REC	1	9/26/2015 4:47:09 AM	21405

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
	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		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1509898**

Date Reported: **9/28/2015**

CLIENT: Yates Petroleum Corporation

Client Sample ID: 3-5'

Project: Aparejo APA Battery

Collection Date: 9/16/2015 8:49:00 AM

Lab ID: 1509898-010

Matrix: SOIL

Received Date: 9/18/2015 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/26/2015 5:14:40 AM	21405
Surr: BFB	99.4	70-130		%REC	1	9/26/2015 5:14:40 AM	21405
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/22/2015 7:16:02 PM	21400
Surr: DNOP	88.3	57.9-140		%REC	1	9/22/2015 7:16:02 PM	21400
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.048		mg/Kg	1	9/26/2015 5:14:40 AM	21405
Toluene	ND	0.048		mg/Kg	1	9/26/2015 5:14:40 AM	21405
Ethylbenzene	ND	0.048		mg/Kg	1	9/26/2015 5:14:40 AM	21405
Xylenes, Total	ND	0.096		mg/Kg	1	9/26/2015 5:14:40 AM	21405
Surr: 1,2-Dichloroethane-d4	96.2	70-130		%REC	1	9/26/2015 5:14:40 AM	21405
Surr: 4-Bromofluorobenzene	99.2	70-130		%REC	1	9/26/2015 5:14:40 AM	21405
Surr: Dibromofluoromethane	105	70-130		%REC	1	9/26/2015 5:14:40 AM	21405
Surr: Toluene-d8	96.5	70-130		%REC	1	9/26/2015 5:14:40 AM	21405

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
	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		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1509898**

Date Reported: **9/28/2015**

CLIENT: Yates Petroleum Corporation

Client Sample ID: 4-1'

Project: Aparejo APA Battery

Collection Date: 9/16/2015 8:06:00 AM

Lab ID: 1509898-011

Matrix: SOIL

Received Date: 9/18/2015 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	130	25	D	mg/Kg	5	9/26/2015 5:42:12 AM	21405
Surr: BFB	99.3	70-130	D	%REC	5	9/26/2015 5:42:12 AM	21405
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	200	10		mg/Kg	1	9/23/2015 9:12:32 AM	21400
Surr: DNOP	96.7	57.9-140		%REC	1	9/23/2015 9:12:32 AM	21400
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	1.3	0.25	D	mg/Kg	5	9/26/2015 5:42:12 AM	21405
Toluene	7.0	0.25	D	mg/Kg	5	9/26/2015 5:42:12 AM	21405
Ethylbenzene	5.0	0.25	D	mg/Kg	5	9/26/2015 5:42:12 AM	21405
Xylenes, Total	5.9	0.49	D	mg/Kg	5	9/26/2015 5:42:12 AM	21405
Surr: 1,2-Dichloroethane-d4	97.2	70-130	D	%REC	5	9/26/2015 5:42:12 AM	21405
Surr: 4-Bromofluorobenzene	101	70-130	D	%REC	5	9/26/2015 5:42:12 AM	21405
Surr: Dibromofluoromethane	110	70-130	D	%REC	5	9/26/2015 5:42:12 AM	21405
Surr: Toluene-d8	95.1	70-130	D	%REC	5	9/26/2015 5:42:12 AM	21405

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
	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		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1509898**

Date Reported: **9/28/2015**

CLIENT: Yates Petroleum Corporation

Client Sample ID: 4-2'

Project: Aparejo APA Battery

Collection Date: 9/16/2015 8:08:00 AM

Lab ID: 1509898-012

Matrix: SOIL

Received Date: 9/18/2015 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	170	46	D	mg/Kg	10	9/26/2015 6:09:31 AM	21405
Surr: BFB	103	70-130	D	%REC	10	9/26/2015 6:09:31 AM	21405
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	3100	99		mg/Kg	10	9/22/2015 7:59:16 PM	21400
Surr: DNOP	0	57.9-140	S	%REC	10	9/22/2015 7:59:16 PM	21400
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	2.2	0.46	D	mg/Kg	10	9/26/2015 6:09:31 AM	21405
Toluene	0.54	0.46	D	mg/Kg	10	9/26/2015 6:09:31 AM	21405
Ethylbenzene	3.9	0.46	D	mg/Kg	10	9/26/2015 6:09:31 AM	21405
Xylenes, Total	ND	0.93	D	mg/Kg	10	9/26/2015 6:09:31 AM	21405
Surr: 1,2-Dichloroethane-d4	95.6	70-130	D	%REC	10	9/26/2015 6:09:31 AM	21405
Surr: 4-Bromofluorobenzene	91.4	70-130	D	%REC	10	9/26/2015 6:09:31 AM	21405
Surr: Dibromofluoromethane	104	70-130	D	%REC	10	9/26/2015 6:09:31 AM	21405
Surr: Toluene-d8	97.5	70-130	D	%REC	10	9/26/2015 6:09:31 AM	21405

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
	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		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1509898**

Date Reported: **9/28/2015**

CLIENT: Yates Petroleum Corporation

Client Sample ID: 4-3'

Project: Aparejo APA Battery

Collection Date: 9/16/2015 8:10:00 AM

Lab ID: 1509898-013

Matrix: SOIL

Received Date: 9/18/2015 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	190	25	D	mg/Kg	5	9/26/2015 6:36:59 AM	21405
Surr: BFB	110	70-130	D	%REC	5	9/26/2015 6:36:59 AM	21405
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	3300	100		mg/Kg	10	9/22/2015 8:20:56 PM	21400
Surr: DNOP	0	57.9-140	S	%REC	10	9/22/2015 8:20:56 PM	21400
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	1.8	0.25	D	mg/Kg	5	9/26/2015 6:36:59 AM	21405
Toluene	0.77	0.25	D	mg/Kg	5	9/26/2015 6:36:59 AM	21405
Ethylbenzene	2.0	0.25	D	mg/Kg	5	9/26/2015 6:36:59 AM	21405
Xylenes, Total	0.50	0.50	D	mg/Kg	5	9/26/2015 6:36:59 AM	21405
Surr: 1,2-Dichloroethane-d4	97.2	70-130	D	%REC	5	9/26/2015 6:36:59 AM	21405
Surr: 4-Bromofluorobenzene	83.3	70-130	D	%REC	5	9/26/2015 6:36:59 AM	21405
Surr: Dibromofluoromethane	107	70-130	D	%REC	5	9/26/2015 6:36:59 AM	21405
Surr: Toluene-d8	95.3	70-130	D	%REC	5	9/26/2015 6:36:59 AM	21405

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
	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		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1509898

Date Reported: 9/28/2015

CLIENT: Yates Petroleum Corporation

Client Sample ID: 4-4'

Project: Aparejo APA Battery

Collection Date: 9/16/2015 8:13:00 AM

Lab ID: 1509898-014

Matrix: SOIL

Received Date: 9/18/2015 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	77	25	D	mg/Kg	5	9/26/2015 7:04:28 AM	21405
Surr: BFB	104	70-130	D	%REC	5	9/26/2015 7:04:28 AM	21405
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	770	97		mg/Kg	10	9/22/2015 8:42:27 PM	21400
Surr: DNOP	0	57.9-140	S	%REC	10	9/22/2015 8:42:27 PM	21400
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	2.0	0.25	D	mg/Kg	5	9/26/2015 7:04:28 AM	21405
Toluene	ND	0.25	D	mg/Kg	5	9/26/2015 7:04:28 AM	21405
Ethylbenzene	2.0	0.25	D	mg/Kg	5	9/26/2015 7:04:28 AM	21405
Xylenes, Total	ND	0.49	D	mg/Kg	5	9/26/2015 7:04:28 AM	21405
Surr: 1,2-Dichloroethane-d4	95.5	70-130	D	%REC	5	9/26/2015 7:04:28 AM	21405
Surr: 4-Bromofluorobenzene	95.6	70-130	D	%REC	5	9/26/2015 7:04:28 AM	21405
Surr: Dibromofluoromethane	106	70-130	D	%REC	5	9/26/2015 7:04:28 AM	21405
Surr: Toluene-d8	97.0	70-130	D	%REC	5	9/26/2015 7:04:28 AM	21405

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
	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		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1509898**

Date Reported: **9/28/2015**

CLIENT: Yates Petroleum Corporation

Client Sample ID: 4-5'

Project: Aparejo APA Battery

Collection Date: 9/16/2015 8:18:00 AM

Lab ID: 1509898-015

Matrix: SOIL

Received Date: 9/18/2015 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	590	48	D	mg/Kg	10	9/26/2015 7:31:57 AM	21405
Surr: BFB	110	70-130	D	%REC	10	9/26/2015 7:31:57 AM	21405
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	4400	96		mg/Kg	10	9/22/2015 9:04:03 PM	21400
Surr: DNOP	0	57.9-140	S	%REC	10	9/22/2015 9:04:03 PM	21400
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.48	D	mg/Kg	10	9/26/2015 7:31:57 AM	21405
Toluene	ND	0.48	D	mg/Kg	10	9/26/2015 7:31:57 AM	21405
Ethylbenzene	0.87	0.48	D	mg/Kg	10	9/26/2015 7:31:57 AM	21405
Xylenes, Total	ND	0.96	D	mg/Kg	10	9/26/2015 7:31:57 AM	21405
Surr: 1,2-Dichloroethane-d4	102	70-130	D	%REC	10	9/26/2015 7:31:57 AM	21405
Surr: 4-Bromofluorobenzene	76.0	70-130	D	%REC	10	9/26/2015 7:31:57 AM	21405
Surr: Dibromofluoromethane	108	70-130	D	%REC	10	9/26/2015 7:31:57 AM	21405
Surr: Toluene-d8	102	70-130	D	%REC	10	9/26/2015 7:31:57 AM	21405

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
	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#: 1509898

29-Sep-15

Client: Yates Petroleum Corporation

Project: Aparejo APA Battery

Sample ID	MB-21400		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 21400		RunNo: 29014					
Prep Date:	9/21/2015		Analysis Date: 9/22/2015		SeqNo: 880364		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		104	57.9	140			

Sample ID	LCS-21400		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 21400		RunNo: 29014					
Prep Date:	9/21/2015		Analysis Date: 9/22/2015		SeqNo: 880367		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.6	57.4	139			
Surr: DNOP	5.2		5.000		105	57.9	140			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1509898

29-Sep-15

Client: Yates Petroleum Corporation

Project: Aparejo APA Battery

Sample ID	mb-21405		SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	PBS		Batch ID: 21405		RunNo: 29107					
Prep Date:	9/21/2015		Analysis Date: 9/25/2015		SeqNo: 884408		Units: mg/Kg			
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: 1,2-Dichloroethane-d4	0.47		0.5000		93.2	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.1	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		109	70	130			
Surr: Toluene-d8	0.48		0.5000		96.0	70	130			

Sample ID	lcs-21405		SampType: LCS		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	LCSS		Batch ID: 21405		RunNo: 29107					
Prep Date:	9/21/2015		Analysis Date: 9/25/2015		SeqNo: 884409		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.0	70	130			
Toluene	0.96	0.050	1.000	0	95.7	70	130			
Ethylbenzene	1.0	0.050	1.000	0	101	70	130			
Xylenes, Total	3.0	0.10	3.000	0	98.4	70	130			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.3	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.3	70	130			
Surr: Dibromofluoromethane	0.57		0.5000		114	70	130			
Surr: Toluene-d8	0.48		0.5000		95.8	70	130			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1509898

29-Sep-15

Client: Yates Petroleum Corporation

Project: Aparejo APA Battery

Sample ID	mb-21405		SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID:	PBS		Batch ID: 21405		RunNo: 29107					
Prep Date:	9/21/2015		Analysis Date: 9/25/2015		SeqNo: 884491		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	520		500.0		104	70	130			

Sample ID	lcs-21405		SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID:	LCSS		Batch ID: 21405		RunNo: 29107					
Prep Date:	9/21/2015		Analysis Date: 9/25/2015		SeqNo: 884492		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.0	70	123			
Surr: BFB	500		500.0		99.9	70	130			

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



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 Number: 1509898

RcptNo: 1

Received by/date:

Logged By: Lindsay Mangin

Completed By: Lindsay Mangin

Reviewed By:

09/18/15
9/18/2015 9:21:00 AM

9/18/2015 2:50:23 PM

09/18/15

Chain of Custody

1. 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

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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 ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
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 ☐
of preserved bottles checked for pH: ☐
(<2 or >12 unless noted)
Adjusted? ☐
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: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.2	Good	Yes			



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

September 28, 2015

Amber Griffin

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

RE: Aparejo APA Battery

OrderNo.: 1509898

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 15 sample(s) on 9/18/2015 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 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order: 1509898

Date Reported: 9/28/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation
Project: Aparejo APA Battery

Lab Order: 1509898

Lab ID: 1509898-001

Collection Date: 9/16/2015 8:26:00 AM

Client Sample ID: 2-1'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	5800	300		mg/Kg	200	9/24/2015 10:29:10 PM	21467

Lab ID: 1509898-002

Collection Date: 9/16/2015 8:27:00 AM

Client Sample ID: 2-2'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	3600	150		mg/Kg	100	9/24/2015 10:41:34 PM	21467

Lab ID: 1509898-003

Collection Date: 9/16/2015 8:29:00 AM

Client Sample ID: 2-3'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	2300	75		mg/Kg	50	9/24/2015 10:53:59 PM	21467

Lab ID: 1509898-004

Collection Date: 9/16/2015 8:32:00 AM

Client Sample ID: 2-4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1100	75		mg/Kg	50	9/24/2015 11:06:23 PM	21467

Lab ID: 1509898-005

Collection Date: 9/16/2015 8:34:00 AM

Client Sample ID: 2-5'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	990	30		mg/Kg	20	9/23/2015 3:29:57 PM	21467

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
	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		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1509898

Date Reported: 9/28/2015

CLIENT: Yates Petroleum Corporation
Project: Aparejo APA Battery

Lab Order: 1509898

Lab ID: 1509898-006

Collection Date: 9/16/2015 8:40:00 AM

Client Sample ID: 3-1'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1100	30		mg/Kg	20	9/23/2015 3:42:21 PM	21467

Lab ID: 1509898-007

Collection Date: 9/16/2015 8:41:00 AM

Client Sample ID: 3-2'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	270	30		mg/Kg	20	9/23/2015 3:54:45 PM	21467

Lab ID: 1509898-008

Collection Date: 9/16/2015 8:43:00 AM

Client Sample ID: 3-3'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	70	30		mg/Kg	20	9/23/2015 4:07:10 PM	21467

Lab ID: 1509898-009

Collection Date: 9/16/2015 8:46:00 AM

Client Sample ID: 3-4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	230	30		mg/Kg	20	9/23/2015 4:19:34 PM	21467

Lab ID: 1509898-010

Collection Date: 9/16/2015 8:49:00 AM

Client Sample ID: 3-5'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	230	30		mg/Kg	20	9/23/2015 4:31:59 PM	21467

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
	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		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1509898

Date Reported: 9/28/2015

CLIENT: Yates Petroleum Corporation
Project: Aparejo APA Battery

Lab Order: 1509898

Lab ID: 1509898-011

Collection Date: 9/16/2015 8:06:00 AM

Client Sample ID: 4-1'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	9600	300		mg/Kg	200	9/24/2015 11:18:48 PM	21467

Lab ID: 1509898-012

Collection Date: 9/16/2015 8:08:00 AM

Client Sample ID: 4-2'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	5300	300		mg/Kg	200	9/24/2015 11:56:02 PM	21467

Lab ID: 1509898-013

Collection Date: 9/16/2015 8:10:00 AM

Client Sample ID: 4-3'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	3500	150		mg/Kg	100	9/25/2015 12:08:26 AM	21467

Lab ID: 1509898-014

Collection Date: 9/16/2015 8:13:00 AM

Client Sample ID: 4-4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	2900	150		mg/Kg	100	9/25/2015 12:20:51 AM	21467

Lab ID: 1509898-015

Collection Date: 9/16/2015 8:18:00 AM

Client Sample ID: 4-5'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	370	30		mg/Kg	20	9/23/2015 5:58:52 PM	21467

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
	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#: 1509898

29-Sep-15

Client: Yates Petroleum Corporation

Project: Aparejo APA Battery

Sample ID	MB-21467		SampType: MBLK		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 21467		RunNo: 29069					
Prep Date:	9/23/2015		Analysis Date: 9/23/2015		SeqNo: 882299		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-21467		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 21467		RunNo: 29069					
Prep Date:	9/23/2015		Analysis Date: 9/23/2015		SeqNo: 882300		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	90	110			

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

Sample Log-In Check List

Client Name: Yates Petroleum Corporat

Work Order Number: 1509898

RcptNo: 1

Received by/date:

Logged By: Lindsay Mangin

Completed By: Lindsay Mangin

Reviewed By:

9/18/2015 9:21:00 AM

9/18/2015 2:50:23 PM

09/18/15

Chain of Custody

1. 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

Log In

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 ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
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 ☐

of preserved
bottles checked
for pH:
(<2 or >12 unless noted)
Adjusted?
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: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.2	Good	Yes			

