



S1 Release Area



S2 Release Area



S3 Release Area

Analytical Report- H401390 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO
S1-1'	Release Area	12/8/2015	Hand Auger	1'	ND	ND	ND
S1-2'	Release Area	12/8/2015	Hand Auger	2'	ND	ND	ND
S2-1'	Release Area	12/8/2015	Hand Auger	1'	ND	ND	ND
S2-2'	Release Area	12/8/2015	Hand Auger	2'	ND	ND	ND
S3-1'	Release Area	12/8/2015	Hand Auger	1'	0.906	ND	ND
S3-2'	Release Area	12/8/2015	Hand Auger	2'	ND	ND	ND

Site Ranking is Zero (0). DTGW >100' (approx 130', Section 25, T21S-R31E, Trend Map)

All results are ppm.

Released: 40 B/O; Recovered: 35 B/O Release Date: 11/20/2015



*Hall Environmental Analysis Laboratory*  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

December 18, 2015

Chase Settle

Yates Petroleum Corporation  
105 South Fourth Street  
Artesia, NM 88210  
TEL: (575) 748-4195  
FAX

RE: Wolf AJA Federal Battery

OrderNo.: 1512606

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 6 sample(s) on 12/11/2015 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 1512606

Date Reported: 12/18/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: S1-1'

Project: Wolf AJA Federal Battery

Collection Date: 12/8/2015 1:01:00 PM

Lab ID: 1512606-001

Matrix: SOIL

Received Date: 12/11/2015 9:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/16/2015 2:24:54 PM	22777
Surr: DNOP	102	70-130		%REC	1	12/16/2015 2:24:54 PM	22777
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/16/2015 2:54:59 PM	22788
Surr: BFB	88.3	66.2-112		%REC	1	12/16/2015 2:54:59 PM	22788
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.046		mg/Kg	1	12/16/2015 2:54:59 PM	22788
Toluene	ND	0.046		mg/Kg	1	12/16/2015 2:54:59 PM	22788
Ethylbenzene	ND	0.046		mg/Kg	1	12/16/2015 2:54:59 PM	22788
Xylenes, Total	ND	0.093		mg/Kg	1	12/16/2015 2:54:59 PM	22788
Surr: 4-Bromofluorobenzene	115	80-120		%REC	1	12/16/2015 2:54:59 PM	22788

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		

## Analytical Report

Lab Order 1512606

Date Reported: 12/18/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: S1-2'

Project: Wolf AJA Federal Battery

Collection Date: 12/8/2015 1:06:00 PM

Lab ID: 1512606-002

Matrix: SOIL

Received Date: 12/11/2015 9:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/16/2015 3:30:12 PM	22777
Surr: DNOP	92.3	70-130		%REC	1	12/16/2015 3:30:12 PM	22777
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/16/2015 3:19:27 PM	22788
Surr: BFB	83.2	66.2-112		%REC	1	12/16/2015 3:19:27 PM	22788
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	12/16/2015 3:19:27 PM	22788
Toluene	ND	0.047		mg/Kg	1	12/16/2015 3:19:27 PM	22788
Ethylbenzene	ND	0.047		mg/Kg	1	12/16/2015 3:19:27 PM	22788
Xylenes, Total	ND	0.094		mg/Kg	1	12/16/2015 3:19:27 PM	22788
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	12/16/2015 3:19:27 PM	22788

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		

## Analytical Report

Lab Order 1512606

Date Reported: 12/18/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: S2-1'

Project: Wolf AJA Federal Battery

Collection Date: 12/8/2015 1:15:00 PM

Lab ID: 1512606-003

Matrix: SOIL

Received Date: 12/11/2015 9:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/16/2015 3:51:49 PM	22777
Surr: DNOP	95.5	70-130		%REC	1	12/16/2015 3:51:49 PM	22777
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2015 3:44:06 PM	22788
Surr: BFB	86.1	66.2-112		%REC	1	12/16/2015 3:44:06 PM	22788
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	12/16/2015 3:44:06 PM	22788
Toluene	ND	0.049		mg/Kg	1	12/16/2015 3:44:06 PM	22788
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2015 3:44:06 PM	22788
Xylenes, Total	ND	0.099		mg/Kg	1	12/16/2015 3:44:06 PM	22788
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	12/16/2015 3:44:06 PM	22788

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		



## Analytical Report

Lab Order 1512606

Date Reported: 12/18/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: S2-2'

Project: Wolf AJA Federal Battery

Collection Date: 12/8/2015 1:20:00 PM

Lab ID: 1512606-004

Matrix: SOIL

Received Date: 12/11/2015 9:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/16/2015 4:13:39 PM	22777
Surr: DNOP	96.3	70-130		%REC	1	12/16/2015 4:13:39 PM	22777
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/16/2015 4:08:35 PM	22788
Surr: BFB	83.7	66.2-112		%REC	1	12/16/2015 4:08:35 PM	22788
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	12/16/2015 4:08:35 PM	22788
Toluene	ND	0.047		mg/Kg	1	12/16/2015 4:08:35 PM	22788
Ethylbenzene	ND	0.047		mg/Kg	1	12/16/2015 4:08:35 PM	22788
Xylenes, Total	ND	0.094		mg/Kg	1	12/16/2015 4:08:35 PM	22788
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	12/16/2015 4:08:35 PM	22788

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 4 of 9
	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			

## Analytical Report

Lab Order 1512606

Date Reported: 12/18/2015

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Yates Petroleum Corporation**Client Sample ID:** S3-1'**Project:** Wolf AJA Federal Battery**Collection Date:** 12/8/2015 1:27:00 PM**Lab ID:** 1512606-005**Matrix:** SOIL**Received Date:** 12/11/2015 9:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/16/2015 4:35:16 PM	22777
Surr: DNOP	94.8	70-130		%REC	1	12/16/2015 4:35:16 PM	22777
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/16/2015 7:48:30 PM	22788
Surr: BFB	95.9	66.2-112		%REC	1	12/16/2015 7:48:30 PM	22788
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.047		mg/Kg	1	12/16/2015 7:48:30 PM	22788
Toluene	0.096	0.047		mg/Kg	1	12/16/2015 7:48:30 PM	22788
Ethylbenzene	0.059	0.047		mg/Kg	1	12/16/2015 7:48:30 PM	22788
Xylenes, Total	0.22	0.095		mg/Kg	1	12/16/2015 7:48:30 PM	22788
Surr: 4-Bromofluorobenzene	126	80-120	S	%REC	1	12/16/2015 7:48:30 PM	22788

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

<b>Qualifiers:</b>	*	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		

**Analytical Report**

Lab Order 1512606

Date Reported: 12/18/2015

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Yates Petroleum Corporation**Client Sample ID:** S3-2'**Project:** Wolf AJA Federal Battery**Collection Date:** 12/8/2015 1:31:00 PM**Lab ID:** 1512606-006**Matrix:** SOIL**Received Date:** 12/11/2015 9:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/16/2015 4:56:59 PM	22777
Surr: DNOP	95.3	70-130		%REC	1	12/16/2015 4:56:59 PM	22777
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/16/2015 8:12:52 PM	22788
Surr: BFB	86.4	66.2-112		%REC	1	12/16/2015 8:12:52 PM	22788
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.048		mg/Kg	1	12/16/2015 8:12:52 PM	22788
Toluene	ND	0.048		mg/Kg	1	12/16/2015 8:12:52 PM	22788
Ethylbenzene	ND	0.048		mg/Kg	1	12/16/2015 8:12:52 PM	22788
Xylenes, Total	ND	0.095		mg/Kg	1	12/16/2015 8:12:52 PM	22788
Surr: 4-Bromofluorobenzene	111	80-120		%REC	1	12/16/2015 8:12:52 PM	22788

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

<b>Qualifiers:</b>	*	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#: 1512606

18-Dec-15

Client: Yates Petroleum Corporation

Project: Wolf AJA Federal Battery

Sample ID	MB-22777	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	22777	RunNo:	30855					
Prep Date:	12/14/2015	Analysis Date:	12/15/2015	SeqNo:	943424	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	8.6		10.00		85.7	70	130			

Sample ID	LCS-22777	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	22777	RunNo:	30855					
Prep Date:	12/14/2015	Analysis Date:	12/15/2015	SeqNo:	943440	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.7	65.8	136			
Surr: DNOP	4.5		5.000		89.1	70	130			

### 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#: 1512606

18-Dec-15

Client: Yates Petroleum Corporation

Project: Wolf AJA Federal Battery

Sample ID	MB-22788	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	22788	RunNo:	30861					
Prep Date:	12/14/2015	Analysis Date:	12/15/2015	SeqNo:	943137	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	960		1000		95.8	66.2	112			

Sample ID	LCS-22788	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	22788	RunNo:	30861					
Prep Date:	12/14/2015	Analysis Date:	12/15/2015	SeqNo:	943138	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	93.0	79.6	122			
Surr: BFB	1100		1000		107	66.2	112			

Sample ID	MB-22811	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	22811	RunNo:	30888					
Prep Date:	12/15/2015	Analysis Date:	12/16/2015	SeqNo:	944120	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	830		1000		82.7	66.2	112			

Sample ID	LCS-22811	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	22811	RunNo:	30888					
Prep Date:	12/15/2015	Analysis Date:	12/16/2015	SeqNo:	944121	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		101	66.2	112			

### 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#: 1512606

18-Dec-15

Client: Yates Petroleum Corporation

Project: Wolf AJA Federal Battery

Sample ID	MB-22788	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID: 22788			RunNo: 30861					
Prep Date:	12/14/2015	Analysis Date: 12/15/2015			SeqNo: 943176		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	1.3		1.000		126	80	120			S

Sample ID	LCS-22788		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 22788		RunNo: 30861					
Prep Date:	12/14/2015		Analysis Date: 12/15/2015		SeqNo: 943177		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	99.4	80	120			
Toluene	0.99	0.050	1.000	0	98.7	80	120			
Ethylbenzene	1.1	0.050	1.000	0	105	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.4		1.000		142	80	120			S

Sample ID	MB-22811		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 22811		RunNo: 30888					
Prep Date:	12/15/2015		Analysis Date: 12/16/2015		SeqNo: 944175		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID	LCS-22811		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 22811		RunNo: 30888					
Prep Date:	12/15/2015		Analysis Date: 12/16/2015		SeqNo: 944176		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		119	80	120			

### 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  
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: 1512606

RcptNo: 1

Received by/date:

SA 12/11/15

Logged By: Lindsay Mangin

12/11/2015 9:40:00 AM

*Lindsay Mangin*

Completed By: Lindsay Mangin

12/14/2015 8:59:33 AM

*Lindsay Mangin*

Reviewed By:

*SA*

12/14/15

### 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  $6.0^{\circ}\text{C}$ ? 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	2.3	Good	Yes			

# Chain-of-Custody Record

Client: Yates Petroleum Corporation

Mailing Address:

105 South 4th Street Artesia, NM 88210

Phone #: 575-703-6537

email or Fax#: csettle@yatespetroleum.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Wolf AJA Federal Battery

Project #:

30-015-26777

Project Manager:

Chase Settle

PO # 205. 0750

Sampler: Chase Settle

On Site: ☒ Yes ☐ No

Sample Temperature: 23

HEAL No. 1512606

Date Time Matrix Sample Request ID

Container Type and #

Preservative Type

BTEX + MTBE + TMBs (8021)

BTEX + MTBE + TPH (Gas only)

TPH Method 8015B (Gas/Diesel)

TPH (Method 418.1)

EDB (Method 504.1)

8310 (PNA or PAH)

RCRA 8 Metals

Anions (F, Cl, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

Remarks:

Received by: Date Time

12/10/15 0940

Received by: Date Time

12/10/15 0940

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.