

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2000



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September 8, 2015

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

Re: Perdomo BMP State Com #1H
30-015-36499
Section 24, T24S-R27E
Eddy County, New Mexico

Dear Mr. Bratcher or Ms. Patterson:

Yates Petroleum Corporation would like to submit the following partial plan of work to you regarding the release that occurred at the above mentioned facility on August 19, 2015 (2RP-3226). The release was 42 barrels of oil released, with 40 barrels of oil recovered.

Yates hand sampled the release area on 8/24/2015 with a hand core to determine the vertical extent of TPH and BTEX contamination from the release. Yates received the initial analytical results from the laboratory on 9/1/2015. The initial analytical results show the following:

- Section 1: TPH and BTEX levels above the RRAL at 1' and 2' below the surface level. Both TPH and BTEX levels clean-up and are under the RRAL at 3' below the surface level.
- Section 2: TPH levels above the RRAL at 1' below the surface level. TPH levels clean-up and are under the RRAL at 2' below the surface level. BTEX levels are below the RRAL at 1' and 2' below the surface level.
- Section 3: TPH levels are above the RRAL at 1' and 2' below the surface level. TPH levels clean-up and are under the RRAL at 3' below the surface level. BTEX levels are above the RRAL at 1' below the surface level. BTEX levels clean-up and are under the RRAL at 2' and 3' below the surface level.
- Section 4: TPH and BTEX are above the RRAL at 1' below the surface level.
- Section 5: TPH levels are above the RRAL at 1', 2' and 3' below the surface level. BTEX levels are above the RRAL at 1' and 2' below the surface level. BTEX levels clean-up and are under the RRAL at 3' below the surface level.
- Section 6: TPH and BTEX are above the RRAL at 1' below the surface level.

KATHY H. PORTER
SECRETARY

DENNIS G. KINSEY
TREASURER

Yates needs to clean-up Sections 1, 2, and 3 of the spill as soon as possible. We need to add more oil production tanks to this location, and the tanks need to be placed in or near Sections 1, 2, and 3 of the release area. Yates proposes to excavate:

- 2.5' from Section 1
- 1.5' from Section 2
- 2.5' from Section 3

All excavated soils from these three sections will be hauled to a NMOCD approved facility. Once these three sections are excavated to these depths they will be backfilled with caliche and turned back over to our production department for the tank additions.

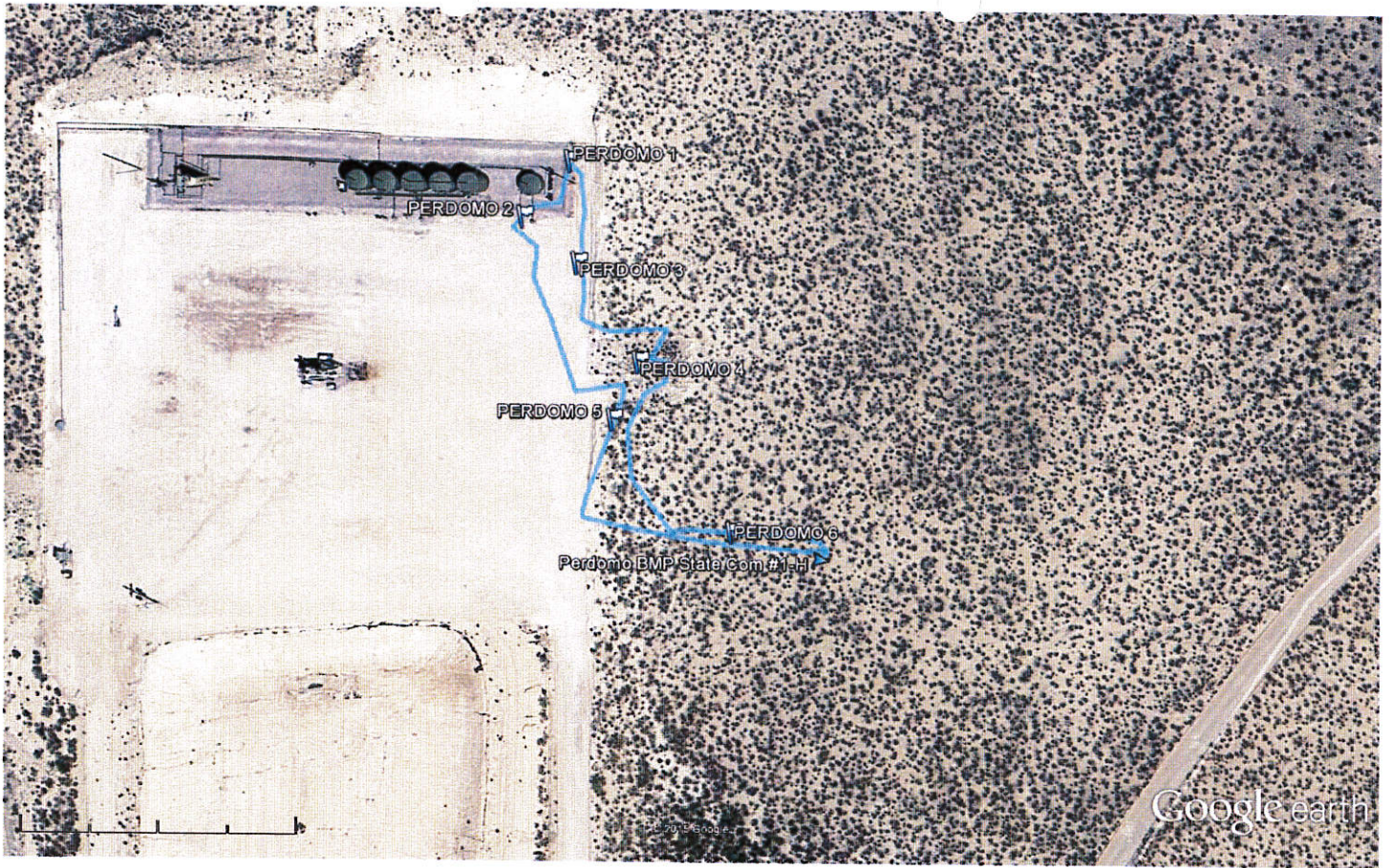
Once Sections 1, 2, and 3 are completely cleaned-up Yates will continue with work on Sections 4, 5, and 6. These three sections require further vertical delineation with a backhoe. A new work plan will be submitted to NMOCD for Sections 4, 5, and 6 once they have been further delineated. Closure will not be requested for this release until all sections of the release are properly taken care of.

Attached you will find the initial analytical results and a site diagram on a Google Earth image.

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

Thank You,


Amber Griffin
Environmental Regulatory Agent
Yates Petroleum Corporation



Google earth

feet 500
meters 100





Google earth

feet 700
meters 200



*The red lines added to this map reflects the current lease road to the location. The road in the map that goes South from the location no longer exists.

-The blue outline is the release area.

Perdomo BMP State Com #1H

Hall Environmental

	Sample Area	Sample Date	Analytical Report	Sample Type	Depth	BTEX	GRO	DRO	TOTAL
1 - 1'	Release Area	8/24/2015	1508E10	Grab/Auger	1'	306	7,400	11,000	18,400
1 - 2'	Release Area	8/24/2015	1508E10	Grab/Auger	2'	105	3,200	41,000	44,200
1 - 3'	Release Area	8/24/2015	1508E10	Grab/Auger	3'	0.196	ND	ND	ND
2 - 1'	Release Area	8/24/2015	1508E10	Grab/Auger	1'	5.28	300	530	830
2 - 2'	Release Area	8/24/2015	1508E10	Grab/Auger	2'	ND	ND	ND	ND
3 - 1'	Release Area	8/24/2015	1508E10	Grab/Auger	1'	287.1	6,900	14,000	20,900
3 - 2'	Release Area	8/24/2015	1508E10	Grab/Auger	2'	5.59	170	440	610
3 - 3'	Release Area	8/24/2015	1508E10	Grab/Auger	3'	ND	5.9	21	26.9
4 - 1'	Release Area	8/24/2015	1508E10	Grab/Auger	1'	403	7,300	22,000	29,300
5 - 1'	Release Area	8/24/2015	1508E10	Grab/Auger	1'	740	12,000	30,000	42,000
5 - 2'	Release Area	8/24/2015	1508E10	Grab/Auger	2'	690	11,000	32,000	43,000
5 - 3'	Release Area	8/24/2015	1508E10	Grab/Auger	3'	3.916	98	220	318
6 - 1'	Release Area	8/24/2015	1508E10	Grab/Auger	1'	167.7	3,000	9,800	12,800

Site Ranking is **TWENTY (20)**. Depth to Ground Water <50' (approx. 45', per ChevronTexaco Trend Map).

All results are ppm.

Released: 42 B/O; Recovered: 40 B/O. Release Date: 8/19/15. 2RP-3226



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

September 01, 2015

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

RE: Perdomo BMP State Com #1H

OrderNo.: 1508E10

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 13 sample(s) on 8/28/2015 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 1508E10

Date Reported: 9/1/2015

CLIENT: Yates Petroleum Corporation

Client Sample ID: 1-1'

Project: Perdomo BMP State Com #1H

Collection Date: 8/24/2015 11:31:00 AM

Lab ID: 1508E10-001

Matrix: SOIL

Received Date: 8/28/2015 2:08:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	7400	500		mg/Kg	100	8/31/2015 10:41:01 AM	21037
Surr: BFB	101	70-130		%REC	100	8/31/2015 10:41:01 AM	21037
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	11000	1000		mg/Kg	100	8/31/2015 1:58:40 PM	21043
Surr: DNOP	0	57.9-140	S	%REC	100	8/31/2015 1:58:40 PM	21043
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	10	5.0		mg/Kg	100	8/31/2015 10:41:01 AM	21037
Toluene	89	5.0		mg/Kg	100	8/31/2015 10:41:01 AM	21037
Ethylbenzene	17	5.0		mg/Kg	100	8/31/2015 10:41:01 AM	21037
Xylenes, Total	190	10		mg/Kg	100	8/31/2015 10:41:01 AM	21037
Surr: 1,2-Dichloroethane-d4	96.4	70-130		%REC	100	8/31/2015 10:41:01 AM	21037
Surr: 4-Bromofluorobenzene	86.2	70-130		%REC	100	8/31/2015 10:41:01 AM	21037
Surr: Dibromofluoromethane	92.7	70-130		%REC	100	8/31/2015 10:41:01 AM	21037
Surr: Toluene-d8	101	70-130		%REC	100	8/31/2015 10:41:01 AM	21037

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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 1508E10

Date Reported: 9/1/2015

CLIENT: Yates Petroleum Corporation

Client Sample ID: 1-2'

Project: Perdomo BMP State Com #1H

Collection Date: 8/24/2015 11:44:00 AM

Lab ID: 1508E10-002

Matrix: SOIL

Received Date: 8/28/2015 2:08:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	3200	230		mg/Kg	50	8/31/2015 11:09:50 AM	21037
Surr: BFB	103	70-130		%REC	50	8/31/2015 11:09:50 AM	21037
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	41000	1000		mg/Kg	100	8/31/2015 6:09:14 PM	21043
Surr: DNOP	0	57.9-140	S	%REC	100	8/31/2015 6:09:14 PM	21043
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	2.0	1.1		mg/Kg	50	8/31/2015 11:09:50 AM	21037
Toluene	28	2.3		mg/Kg	50	8/31/2015 11:09:50 AM	21037
Ethylbenzene	6.0	2.3		mg/Kg	50	8/31/2015 11:09:50 AM	21037
Xylenes, Total	69	4.6		mg/Kg	50	8/31/2015 11:09:50 AM	21037
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	50	8/31/2015 11:09:50 AM	21037
Surr: 4-Bromofluorobenzene	90.0	70-130		%REC	50	8/31/2015 11:09:50 AM	21037
Surr: Dibromofluoromethane	94.5	70-130		%REC	50	8/31/2015 11:09:50 AM	21037
Surr: Toluene-d8	98.4	70-130		%REC	50	8/31/2015 11:09:50 AM	21037

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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 1508E10

Date Reported: 9/1/2015

CLIENT: Yates Petroleum Corporation

Client Sample ID: 1-3'

Project: Perdomo BMP State Com #1H

Collection Date: 8/24/2015 11:57:00 AM

Lab ID: 1508E10-003

Matrix: SOIL

Received Date: 8/28/2015 2:08:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/31/2015 11:38:41 AM	21037
Surr: BFB	114	70-130		%REC	1	8/31/2015 11:38:41 AM	21037
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/31/2015 4:17:06 PM	21043
Surr: DNOP	94.8	57.9-140		%REC	1	8/31/2015 4:17:06 PM	21043
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	8/31/2015 11:38:41 AM	21037
Toluene	0.076	0.049		mg/Kg	1	8/31/2015 11:38:41 AM	21037
Ethylbenzene	ND	0.049		mg/Kg	1	8/31/2015 11:38:41 AM	21037
Xylenes, Total	0.12	0.098		mg/Kg	1	8/31/2015 11:38:41 AM	21037
Surr: 1,2-Dichloroethane-d4	95.0	70-130		%REC	1	8/31/2015 11:38:41 AM	21037
Surr: 4-Bromofluorobenzene	97.3	70-130		%REC	1	8/31/2015 11:38:41 AM	21037
Surr: Dibromofluoromethane	98.1	70-130		%REC	1	8/31/2015 11:38:41 AM	21037
Surr: Toluene-d8	87.7	70-130		%REC	1	8/31/2015 11:38:41 AM	21037

0.196

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 1508E10

Date Reported: 9/1/2015

CLIENT: Yates Petroleum Corporation

Client Sample ID: 2-1'

Project: Perdomo BMP State Com #1H

Collection Date: 8/24/2015 12:06:00 PM

Lab ID: 1508E10-004

Matrix: SOIL

Received Date: 8/28/2015 2:08:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	300	47		mg/Kg	10	8/31/2015 2:31:29 PM	21037
Surr: BFB	101	70-130		%REC	10	8/31/2015 2:31:29 PM	21037
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	530	10		mg/Kg	1	8/31/2015 4:44:34 PM	21043
Surr: DNOP	106	57.9-140		%REC	1	8/31/2015 4:44:34 PM	21043
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	8/31/2015 12:07:30 PM	21037
Toluene	0.56	0.047		mg/Kg	1	8/31/2015 12:07:30 PM	21037
Ethylbenzene	0.32	0.047		mg/Kg	1	8/31/2015 12:07:30 PM	21037
Xylenes, Total	4.4	0.095		mg/Kg	1	8/31/2015 12:07:30 PM	21037
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	8/31/2015 12:07:30 PM	21037
Surr: 4-Bromofluorobenzene	68.3	70-130	S	%REC	1	8/31/2015 12:07:30 PM	21037
Surr: Dibromofluoromethane	97.3	70-130		%REC	1	8/31/2015 12:07:30 PM	21037
Surr: Toluene-d8	88.1	70-130		%REC	1	8/31/2015 12:07:30 PM	21037

5.28

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 1508E10

Date Reported: 9/1/2015

CLIENT: Yates Petroleum Corporation

Client Sample ID: 2-2'

Project: Perdomo BMP State Com #1H

Collection Date: 8/24/2015 12:15:00 PM

Lab ID: 1508E10-005

Matrix: SOIL

Received Date: 8/28/2015 2:08:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							
Analyst: RAA							
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/31/2015 12:36:14 PM	21037
Surr: BFB	111	70-130		%REC	1	8/31/2015 12:36:14 PM	21037
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							
Analyst: JME							
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/31/2015 5:12:09 PM	21043
Surr: DNOP	97.1	57.9-140		%REC	1	8/31/2015 5:12:09 PM	21043
EPA METHOD 8260B: VOLATILES SHORT LIST							
Analyst: RAA							
Benzene	ND	0.048		mg/Kg	1	8/31/2015 12:36:14 PM	21037
Toluene	ND	0.048		mg/Kg	1	8/31/2015 12:36:14 PM	21037
Ethylbenzene	ND	0.048		mg/Kg	1	8/31/2015 12:36:14 PM	21037
Xylenes, Total	ND	0.097		mg/Kg	1	8/31/2015 12:36:14 PM	21037
Surr: 1,2-Dichloroethane-d4	97.3	70-130		%REC	1	8/31/2015 12:36:14 PM	21037
Surr: 4-Bromofluorobenzene	93.1	70-130		%REC	1	8/31/2015 12:36:14 PM	21037
Surr: Dibromofluoromethane	98.3	70-130		%REC	1	8/31/2015 12:36:14 PM	21037
Surr: Toluene-d8	86.3	70-130		%REC	1	8/31/2015 12:36:14 PM	21037

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 1508E10

Date Reported: 9/1/2015

CLIENT: Yates Petroleum Corporation

Client Sample ID: 3-1'

Project: Perdomo BMP State Com #1H

Collection Date: 8/24/2015 10:49:00 AM

Lab ID: 1508E10-006

Matrix: SOIL

Received Date: 8/28/2015 2:08:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	6900	940		mg/Kg	200	8/31/2015 3:00:21 PM	21037
Surr: BFB	103	70-130		%REC	200	8/31/2015 3:00:21 PM	21037
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	14000	1000		mg/Kg	100	8/31/2015 2:26:18 PM	21043
Surr: DNOP	0	57.9-140	S	%REC	100	8/31/2015 2:26:18 PM	21043
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	5.1	2.3		mg/Kg	50	8/31/2015 1:04:59 PM	21037
Toluene	75	2.3		mg/Kg	50	8/31/2015 1:04:59 PM	21037
Ethylbenzene	17	2.3		mg/Kg	50	8/31/2015 1:04:59 PM	21037
Xylenes, Total	190	4.7		mg/Kg	50	8/31/2015 1:04:59 PM	21037
Surr: 1,2-Dichloroethane-d4	95.2	70-130		%REC	50	8/31/2015 1:04:59 PM	21037
Surr: 4-Bromofluorobenzene	74.7	70-130		%REC	50	8/31/2015 1:04:59 PM	21037
Surr: Dibromofluoromethane	91.9	70-130		%REC	50	8/31/2015 1:04:59 PM	21037
Surr: Toluene-d8	99.3	70-130		%REC	50	8/31/2015 1:04:59 PM	21037

287.1

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 1508E10

Date Reported: 9/1/2015

CLIENT: Yates Petroleum Corporation

Client Sample ID: 3-2'

Project: Perdomo BMP State Com #1H

Collection Date: 8/24/2015 11:06:00 AM

Lab ID: 1508E10-007

Matrix: SOIL

Received Date: 8/28/2015 2:08:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	170	49		mg/Kg	10	8/31/2015 3:29:12 PM	21037
Surr: BFB	105	70-130		%REC	10	8/31/2015 3:29:12 PM	21037
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	440	9.8		mg/Kg	1	8/31/2015 2:54:02 PM	21043
Surr: DNOP	109	57.9-140		%REC	1	8/31/2015 2:54:02 PM	21043
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	0.080	0.049		mg/Kg	1	8/31/2015 1:33:46 PM	21037
Toluene	1.2	0.049		mg/Kg	1	8/31/2015 1:33:46 PM	21037
Ethylbenzene	0.31	0.049		mg/Kg	1	8/31/2015 1:33:46 PM	21037
Xylenes, Total	4.0	0.098		mg/Kg	1	8/31/2015 1:33:46 PM	21037
Surr: 1,2-Dichloroethane-d4	98.7	70-130		%REC	1	8/31/2015 1:33:46 PM	21037
Surr: 4-Bromofluorobenzene	72.6	70-130		%REC	1	8/31/2015 1:33:46 PM	21037
Surr: Dibromofluoromethane	90.9	70-130		%REC	1	8/31/2015 1:33:46 PM	21037
Surr: Toluene-d8	88.8	70-130		%REC	1	8/31/2015 1:33:46 PM	21037

5.59

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 1508E10

Date Reported: 9/1/2015

CLIENT: Yates Petroleum Corporation

Client Sample ID: 3-3'

Project: Perdomo BMP State Com #1H

Collection Date: 8/24/2015 11:17:00 AM

Lab ID: 1508E10-008

Matrix: SOIL

Received Date: 8/28/2015 2:08:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	5.9	5.0		mg/Kg	1	8/31/2015 2:02:35 PM	21037
Surr: BFB	116	70-130		%REC	1	8/31/2015 2:02:35 PM	21037
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	21	9.9		mg/Kg	1	8/31/2015 3:21:52 PM	21043
Surr: DNOP	104	57.9-140		%REC	1	8/31/2015 3:21:52 PM	21043
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	8/31/2015 2:02:35 PM	21037
Toluene	ND	0.050		mg/Kg	1	8/31/2015 2:02:35 PM	21037
Ethylbenzene	ND	0.050		mg/Kg	1	8/31/2015 2:02:35 PM	21037
Xylenes, Total	ND	0.099		mg/Kg	1	8/31/2015 2:02:35 PM	21037
Surr: 1,2-Dichloroethane-d4	94.9	70-130		%REC	1	8/31/2015 2:02:35 PM	21037
Surr: 4-Bromofluorobenzene	89.1	70-130		%REC	1	8/31/2015 2:02:35 PM	21037
Surr: Dibromofluoromethane	95.0	70-130		%REC	1	8/31/2015 2:02:35 PM	21037
Surr: Toluene-d8	89.5	70-130		%REC	1	8/31/2015 2:02:35 PM	21037

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 1508E10

Date Reported: 9/1/2015

CLIENT: Yates Petroleum Corporation

Client Sample ID: 4-1'

Project: Perdomo BMP State Com #1H

Collection Date: 8/24/2015 12:30:00 PM

Lab ID: 1508E10-009

Matrix: SOIL

Received Date: 8/28/2015 2:08:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	7300	490		mg/Kg	100	8/31/2015 2:06:15 PM	21037
Surr: BFB	113	70-130		%REC	100	8/31/2015 2:06:15 PM	21037
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	22000	990		mg/Kg	100	8/31/2015 1:31:01 PM	21043
Surr: DNOP	0	57.9-140	S	%REC	100	8/31/2015 1:31:01 PM	21043
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	11	4.9		mg/Kg	100	8/31/2015 2:06:15 PM	21037
Toluene	110	4.9		mg/Kg	100	8/31/2015 2:06:15 PM	21037
Ethylbenzene	22	4.9		mg/Kg	100	8/31/2015 2:06:15 PM	21037
Xylenes, Total	260	9.8		mg/Kg	100	8/31/2015 2:06:15 PM	21037
Surr: 1,2-Dichloroethane-d4	113	70-130		%REC	100	8/31/2015 2:06:15 PM	21037
Surr: 4-Bromofluorobenzene	84.9	70-130		%REC	100	8/31/2015 2:06:15 PM	21037
Surr: Dibromofluoromethane	113	70-130		%REC	100	8/31/2015 2:06:15 PM	21037
Surr: Toluene-d8	99.7	70-130		%REC	100	8/31/2015 2:06:15 PM	21037

403

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 1508E10

Date Reported: 9/1/2015

CLIENT: Yates Petroleum Corporation

Client Sample ID: 5-1'

Project: Perdomo BMP State Com #1H

Collection Date: 8/24/2015 12:48:00 PM

Lab ID: 1508E10-010

Matrix: SOIL

Received Date: 8/28/2015 2:08:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	12000	470		mg/Kg	100	8/31/2015 12:43:25 PM	21037
Surr: BFB	113	70-130		%REC	100	8/31/2015 12:43:25 PM	21037
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	30000	970		mg/Kg	100	8/31/2015 5:39:44 PM	21043
Surr: DNOP	0	57.9-140	S	%REC	100	8/31/2015 5:39:44 PM	21043
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	21	4.7		mg/Kg	100	8/31/2015 12:43:25 PM	21037
Toluene	210	4.7		mg/Kg	100	8/31/2015 12:43:25 PM	21037
Ethylbenzene	39	4.7		mg/Kg	100	8/31/2015 12:43:25 PM	21037
Xylenes, Total	470	9.5		mg/Kg	100	8/31/2015 12:43:25 PM	21037
Surr: 1,2-Dichloroethane-d4	114	70-130		%REC	100	8/31/2015 12:43:25 PM	21037
Surr: 4-Bromofluorobenzene	78.6	70-130		%REC	100	8/31/2015 12:43:25 PM	21037
Surr: Dibromofluoromethane	105	70-130		%REC	100	8/31/2015 12:43:25 PM	21037
Surr: Toluene-d8	101	70-130		%REC	100	8/31/2015 12:43:25 PM	21037

740

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 1508E10

Date Reported: 9/1/2015

CLIENT: Yates Petroleum Corporation

Client Sample ID: 5-2'

Project: Perdomo BMP State Com #1H

Collection Date: 8/24/2015 12:54:00 PM

Lab ID: 1508E10-011

Matrix: SOIL

Received Date: 8/28/2015 2:08:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	11000	500		mg/Kg	100	8/31/2015 1:10:59 PM	21037
Surr: BFB	111	70-130		%REC	100	8/31/2015 1:10:59 PM	21037
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	32000	1000		mg/Kg	100	8/31/2015 6:07:21 PM	21043
Surr: DNOP	0	57.9-140	S	%REC	100	8/31/2015 6:07:21 PM	21043
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	22	5.0		mg/Kg	100	8/31/2015 1:10:59 PM	21037
Toluene	190	5.0		mg/Kg	100	8/31/2015 1:10:59 PM	21037
Ethylbenzene	38	5.0		mg/Kg	100	8/31/2015 1:10:59 PM	21037
Xylenes, Total	440	10		mg/Kg	100	8/31/2015 1:10:59 PM	21037
Surr: 1,2-Dichloroethane-d4	113	70-130		%REC	100	8/31/2015 1:10:59 PM	21037
Surr: 4-Bromofluorobenzene	82.6	70-130		%REC	100	8/31/2015 1:10:59 PM	21037
Surr: Dibromofluoromethane	106	70-130		%REC	100	8/31/2015 1:10:59 PM	21037
Surr: Toluene-d8	101	70-130		%REC	100	8/31/2015 1:10:59 PM	21037

690

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 1508E10

Date Reported: 9/1/2015

CLIENT: Yates Petroleum Corporation

Client Sample ID: 5-3'

Project: Perdomo BMP State Com #1H

Collection Date: 8/24/2015 1:02:00 PM

Lab ID: 1508E10-012

Matrix: SOIL

Received Date: 8/28/2015 2:08:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	98	4.7		mg/Kg	1	8/31/2015 12:15:49 PM	21037
Surr: BFB	120	70-130		%REC	1	8/31/2015 12:15:49 PM	21037
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	220	9.7		mg/Kg	1	8/31/2015 3:49:27 PM	21043
Surr: DNOP	94.0	57.9-140		%REC	1	8/31/2015 3:49:27 PM	21043
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	0.066	0.047		mg/Kg	1	8/31/2015 12:15:49 PM	21037
Toluene	0.83	0.047		mg/Kg	1	8/31/2015 12:15:49 PM	21037
Ethylbenzene	0.22	0.047		mg/Kg	1	8/31/2015 12:15:49 PM	21037
Xylenes, Total	2.8	0.094		mg/Kg	1	8/31/2015 12:15:49 PM	21037
Surr: 1,2-Dichloroethane-d4	112	70-130		%REC	1	8/31/2015 12:15:49 PM	21037
Surr: 4-Bromofluorobenzene	68.7	70-130	S	%REC	1	8/31/2015 12:15:49 PM	21037
Surr: Dibromofluoromethane	112	70-130		%REC	1	8/31/2015 12:15:49 PM	21037
Surr: Toluene-d8	96.7	70-130		%REC	1	8/31/2015 12:15:49 PM	21037

3.916

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 1508E10

Date Reported: 9/1/2015

CLIENT: Yates Petroleum Corporation

Client Sample ID: 6-1'

Project: Perdomo BMP State Com #1H

Collection Date: 8/24/2015 1:20:00 PM

Lab ID: 1508E10-013

Matrix: SOIL

Received Date: 8/28/2015 2:08:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	3000	99		mg/Kg	20	8/31/2015 1:38:38 PM	21037
Surr: BFB	120	70-130		%REC	20	8/31/2015 1:38:38 PM	21037
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	9800	980		mg/Kg	100	8/31/2015 2:31:25 PM	21043
Surr: DNOP	0	57.9-140	S	%REC	100	8/31/2015 2:31:25 PM	21043
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	1.8	0.99		mg/Kg	20	8/31/2015 1:38:38 PM	21037
Toluene	36	0.99		mg/Kg	20	8/31/2015 1:38:38 PM	21037
Ethylbenzene	9.9	0.99		mg/Kg	20	8/31/2015 1:38:38 PM	21037
Xylenes, Total	120	2.0		mg/Kg	20	8/31/2015 1:38:38 PM	21037
Surr: 1,2-Dichloroethane-d4	115	70-130		%REC	20	8/31/2015 1:38:38 PM	21037
Surr: 4-Bromofluorobenzene	70.0	70-130		%REC	20	8/31/2015 1:38:38 PM	21037
Surr: Dibromofluoromethane	109	70-130		%REC	20	8/31/2015 1:38:38 PM	21037
Surr: Toluene-d8	94.2	70-130		%REC	20	8/31/2015 1:38:38 PM	21037

167.7

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#: 1508E10

01-Sep-15

Client: Yates Petroleum Corporation

Project: Perdomo BMP State Com #1H

Sample ID	MB-21043	SampType	MBLK	TestCode	EPA Method 8015M/D: Diesel Range Organics					
Client ID	PBS	Batch ID	21043	RunNo	28546					
Prep Date	8/31/2015	Analysis Date	8/31/2015	SeqNo	863645	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

9.8

10.00

97.5

57.9

140

Sample ID	LCS-21043	SampType	LCS	TestCode	EPA Method 8015M/D: Diesel Range Organics					
Client ID	LCSS	Batch ID	21043	RunNo	28546					
Prep Date	8/31/2015	Analysis Date	8/31/2015	SeqNo	863646	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)

41

10

50.00

0

81.1

57.4

139

Surr: DNOP

4.3

5.000

86.7

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#: 1508E10

01-Sep-15

Client: Yates Petroleum Corporation
Project: Perdomo BMP State Com #1H

Sample ID	mb-21037		SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	PBS		Batch ID: 21037		RunNo: 28563					
Prep Date:	8/28/2015		Analysis Date: 8/31/2015		SeqNo: 863882		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	0.48		0.5000		96.1	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		105	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		94.1	70	130			
Surr: Toluene-d8	0.50		0.5000		100	70	130			

Sample ID	mb-21037		SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	PBS		Batch ID: 21037		RunNo: 28555					
Prep Date:	8/28/2015		Analysis Date: 8/31/2015		SeqNo: 864180		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	0.50		0.5000		99.7	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.8	70	130			
Surr: Dibromofluoromethane	0.59		0.5000		118	70	130			
Surr: Toluene-d8	0.47		0.5000		93.6	70	130			

Sample ID	lcs-21037		SampType: LCS		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	LCSS		Batch ID: 21037		RunNo: 28555					
Prep Date:	8/28/2015		Analysis Date: 8/31/2015		SeqNo: 864181		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.050	1.000	0	98.1	70	130			
Toluene	0.93	0.050	1.000	0	92.8	70	130			
Ethylbenzene	0.95	0.050	1.000	0	95.1	70	130			
Xylenes, Total	2.9	0.10	3.000	0	96.0	70	130			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		98.3	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.1	70	130			
Surr: Dibromofluoromethane	0.61		0.5000		122	70	130			
Surr: Toluene-d8	0.46		0.5000		92.9	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#: 1508E10

01-Sep-15

Client: Yates Petroleum Corporation
Project: Perdomo BMP State Com #1H

Sample ID	Ics-21037	SampType:	LCS	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	LCSS	Batch ID:	21037	RunNo:	28563					
Prep Date:	8/28/2015	Analysis Date:	8/31/2015	SeqNo:	864316	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.050	1.000	0	95.5	70	130			
Toluene	0.87	0.050	1.000	0	86.9	70	130			
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		100	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.5	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		97.1	70	130			
Surr: Toluene-d8	0.45		0.5000		90.3	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#: 1508E10

01-Sep-15

Client: Yates Petroleum Corporation
Project: Perdomo BMP State Com #1H

Sample ID	mb-21037	SampType	MBLK	TestCode	EPA Method 8015D Mod: Gasoline Range					
Client ID	PBS	Batch ID	21037	RunNo	28563					
Prep Date	8/28/2015	Analysis Date	8/31/2015	SeqNo	863872	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			

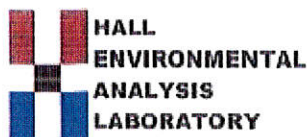
Sample ID	lcs-21037	SampType	LCS	TestCode	EPA Method 8015D Mod: Gasoline Range					
Client ID	LCSS	Batch ID	21037	RunNo	28563					
Prep Date	8/28/2015	Analysis Date	8/31/2015	SeqNo	864314	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	90.0	70	123			
Surr: BFB	590		500.0		118	70	130			

Sample ID	mb-21037	SampType	MBLK	TestCode	EPA Method 8015D Mod: Gasoline Range					
Client ID	PBS	Batch ID	21037	RunNo	28555					
Prep Date	8/28/2015	Analysis Date	8/31/2015	SeqNo	864550	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		103	70	130			

Sample ID	lcs-21037	SampType	LCS	TestCode	EPA Method 8015D Mod: Gasoline Range					
Client ID	LCSS	Batch ID	21037	RunNo	28555					
Prep Date	8/28/2015	Analysis Date	8/31/2015	SeqNo	864551	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	97.9	70	123			
Surr: BFB	560		500.0		112	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 | |



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3973 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Yates Petroleum Corpora

Work Order Number: 1508E10

ReptNo: 1

Received by/date:

mg 08/28/15

Logged By: Ashley Gallegos

8/28/2015 2:08:00 PM

Ag

Completed By: Ashley Gallegos

8/28/2015 3:21:42 PM

Ag

Reviewed By:

SA 08/28/15

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	2.4	Good	Yes			

