



S1 Release Area



S2 Release Area

Site Ranking is Ten (10). DTGW 50-99' (approx 70', Section 16, T6S-R28E, Trend Map)

All results are ppm, Chlorides for documentation.

Released: 20 B/O & 20 B/PW Recovered: 0 B/O & 0 B/PW Release Date: 9/27/2016

ANALYTICAL DATA

1610870	Sample Area	Sample Date	Sampe Type	Depth	BTEX	GRO	DRO	CHLORIDE
S1-1'	Release Area	10/13/2016	Backhoe	1'	ND	ND	ND	92
S1-2'	Release Area	10/13/2016	Backhoe	2'	ND	ND	ND	51
S1-3'	Release Area	10/13/2016	Backhoe	3'	ND	ND	ND	39
S1-4'	Release Area	10/13/2016	Backhoe	4'	ND	ND	ND	70
S2-1'	Release Area	10/13/2016	Backhoe	1'	ND	ND	ND	730
S2-2'	Release Area	10/13/2016	Backhoe	2'	ND	ND	ND	320
S2-3'	Release Area	10/13/2016	Backhoe	3'	ND	ND	ND	48
S2-4'	Release Area	10/13/2016	Backhoe	4'	ND	ND	ND	62



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

October 27, 2016

Chase Settle

EOG

105 South Fourth Street

Artesia, NM 88210

TEL: (575) 748-4111

FAX

RE: Biplane BNZ State Com 1

OrderNo.: 1610870

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 8 sample(s) on 10/18/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

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 1610870

Date Reported: 10/27/2016

CLIENT: EOG

Client Sample ID: S1-1'

Project: Biplane BNZ State Com 1

Collection Date: 10/13/2016 2:37:00 PM

Lab ID: 1610870-001

Matrix: SOIL

Received Date: 10/18/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	92	30		mg/Kg	20	10/25/2016 5:54:50 PM	28251
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/24/2016 12:02:19 PM	28212
Surr: DNOP	85.9	70-130		%Rec	1	10/24/2016 12:02:19 PM	28212
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/20/2016 10:42:36 AM	28139
Surr: BFB	83.3	68.3-144		%Rec	1	10/20/2016 10:42:36 AM	28139
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/20/2016 10:42:36 AM	28139
Toluene	ND	0.049		mg/Kg	1	10/20/2016 10:42:36 AM	28139
Ethylbenzene	ND	0.049		mg/Kg	1	10/20/2016 10:42:36 AM	28139
Xylenes, Total	ND	0.097		mg/Kg	1	10/20/2016 10:42:36 AM	28139
Surr: 4-Bromofluorobenzene	93.2	80-120		%Rec	1	10/20/2016 10:42:36 AM	28139

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	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1610870

Date Reported: 10/27/2016

CLIENT: EOG

Client Sample ID: S1-2'

Project: Biplane BNZ State Com 1

Collection Date: 10/13/2016 2:38:00 PM

Lab ID: 1610870-002

Matrix: SOIL

Received Date: 10/18/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	51	30		mg/Kg	20	10/25/2016 6:07:15 PM	28251
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/24/2016 1:11:38 PM	28212
Surr: DNOP	84.1	70-130		%Rec	1	10/24/2016 1:11:38 PM	28212
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/20/2016 11:53:13 AM	28139
Surr: BFB	82.1	68.3-144		%Rec	1	10/20/2016 11:53:13 AM	28139
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/20/2016 11:53:13 AM	28139
Toluene	ND	0.049		mg/Kg	1	10/20/2016 11:53:13 AM	28139
Ethylbenzene	ND	0.049		mg/Kg	1	10/20/2016 11:53:13 AM	28139
Xylenes, Total	ND	0.098		mg/Kg	1	10/20/2016 11:53:13 AM	28139
Surr: 4-Bromofluorobenzene	94.1	80-120		%Rec	1	10/20/2016 11:53:13 AM	28139

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	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1610870

Date Reported: 10/27/2016

CLIENT: EOG

Client Sample ID: S1-3'

Project: Biplane BNZ State Com 1

Collection Date: 10/13/2016 2:41:00 PM

Lab ID: 1610870-003

Matrix: SOIL

Received Date: 10/18/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	39	30		mg/Kg	20	10/25/2016 6:19:40 PM	28251
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/24/2016 1:34:49 PM	28212
Surr: DNOP	86.1	70-130		%Rec	1	10/24/2016 1:34:49 PM	28212
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/20/2016 7:17:48 PM	28139
Surr: BFB	91.1	68.3-144		%Rec	1	10/20/2016 7:17:48 PM	28139
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/20/2016 7:17:48 PM	28139
Toluene	ND	0.047		mg/Kg	1	10/20/2016 7:17:48 PM	28139
Ethylbenzene	ND	0.047		mg/Kg	1	10/20/2016 7:17:48 PM	28139
Xylenes, Total	ND	0.095		mg/Kg	1	10/20/2016 7:17:48 PM	28139
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	10/20/2016 7:17:48 PM	28139

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	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S1-4'

Project: Biplane BNZ State Com 1

Collection Date: 10/13/2016 2:43:00 PM

Lab ID: 1610870-004

Matrix: SOIL

Received Date: 10/18/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	70	30		mg/Kg	20	10/25/2016 6:32:04 PM	28251
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/24/2016 1:58:14 PM	28212
Surr: DNOP	82.5	70-130		%Rec	1	10/24/2016 1:58:14 PM	28212
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/20/2016 7:41:12 PM	28139
Surr: BFB	84.2	68.3-144		%Rec	1	10/20/2016 7:41:12 PM	28139
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/20/2016 7:41:12 PM	28139
Toluene	ND	0.047		mg/Kg	1	10/20/2016 7:41:12 PM	28139
Ethylbenzene	ND	0.047		mg/Kg	1	10/20/2016 7:41:12 PM	28139
Xylenes, Total	ND	0.094		mg/Kg	1	10/20/2016 7:41:12 PM	28139
Surr: 4-Bromofluorobenzene	96.2	80-120		%Rec	1	10/20/2016 7:41:12 PM	28139

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	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1610870

Date Reported: 10/27/2016

CLIENT: EOG

Client Sample ID: S2-1'

Project: Biplane BNZ State Com 1

Collection Date: 10/13/2016 3:05:00 PM

Lab ID: 1610870-005

Matrix: SOIL

Received Date: 10/18/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	730	30		mg/Kg	20	10/26/2016 5:49:07 PM	28282
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/24/2016 2:21:42 PM	28212
Surr: DNOP	88.2	70-130		%Rec	1	10/24/2016 2:21:42 PM	28212
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/20/2016 8:04:36 PM	28139
Surr: BFB	85.1	68.3-144		%Rec	1	10/20/2016 8:04:36 PM	28139
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/20/2016 8:04:36 PM	28139
Toluene	ND	0.047		mg/Kg	1	10/20/2016 8:04:36 PM	28139
Ethylbenzene	ND	0.047		mg/Kg	1	10/20/2016 8:04:36 PM	28139
Xylenes, Total	ND	0.094		mg/Kg	1	10/20/2016 8:04:36 PM	28139
Surr: 4-Bromofluorobenzene	97.2	80-120		%Rec	1	10/20/2016 8:04:36 PM	28139

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	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S2-2'

Project: Biplane BNZ State Com 1

Collection Date: 10/13/2016 3:06:00 PM

Lab ID: 1610870-006

Matrix: SOIL

Received Date: 10/18/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	320	30		mg/Kg	20	10/26/2016 6:01:32 PM	28282
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/24/2016 2:45:07 PM	28212
Surr: DNOP	89.3	70-130		%Rec	1	10/24/2016 2:45:07 PM	28212
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/20/2016 8:27:58 PM	28139
Surr: BFB	84.9	68.3-144		%Rec	1	10/20/2016 8:27:58 PM	28139
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/20/2016 8:27:58 PM	28139
Toluene	ND	0.050		mg/Kg	1	10/20/2016 8:27:58 PM	28139
Ethylbenzene	ND	0.050		mg/Kg	1	10/20/2016 8:27:58 PM	28139
Xylenes, Total	ND	0.099		mg/Kg	1	10/20/2016 8:27:58 PM	28139
Surr: 4-Bromofluorobenzene	97.1	80-120		%Rec	1	10/20/2016 8:27:58 PM	28139

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	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1610870

Date Reported: 10/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S2-3'

Project: Biplane BNZ State Com 1

Collection Date: 10/13/2016 3:09:00 PM

Lab ID: 1610870-007

Matrix: SOIL

Received Date: 10/18/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	48	30		mg/Kg	20	10/26/2016 6:38:46 PM	28282
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/24/2016 3:08:25 PM	28212
Surr: DNOP	89.6	70-130		%Rec	1	10/24/2016 3:08:25 PM	28212
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/20/2016 8:51:21 PM	28139
Surr: BFB	83.5	68.3-144		%Rec	1	10/20/2016 8:51:21 PM	28139
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/20/2016 8:51:21 PM	28139
Toluene	ND	0.048		mg/Kg	1	10/20/2016 8:51:21 PM	28139
Ethylbenzene	ND	0.048		mg/Kg	1	10/20/2016 8:51:21 PM	28139
Xylenes, Total	ND	0.096		mg/Kg	1	10/20/2016 8:51:21 PM	28139
Surr: 4-Bromofluorobenzene	94.5	80-120		%Rec	1	10/20/2016 8:51:21 PM	28139

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	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1610870

Date Reported: 10/27/2016

CLIENT: EOG

Client Sample ID: S2-4'

Project: Biplane BNZ State Com 1

Collection Date: 10/13/2016 3:12:00 PM

Lab ID: 1610870-008

Matrix: SOIL

Received Date: 10/18/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	62	30		mg/Kg	20	10/26/2016 6:51:10 PM	28282
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/24/2016 3:31:44 PM	28212
Surr: DNOP	89.1	70-130		%Rec	1	10/24/2016 3:31:44 PM	28212
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/20/2016 9:14:45 PM	28139
Surr: BFB	83.6	68.3-144		%Rec	1	10/20/2016 9:14:45 PM	28139
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/20/2016 9:14:45 PM	28139
Toluene	ND	0.049		mg/Kg	1	10/20/2016 9:14:45 PM	28139
Ethylbenzene	ND	0.049		mg/Kg	1	10/20/2016 9:14:45 PM	28139
Xylenes, Total	ND	0.099		mg/Kg	1	10/20/2016 9:14:45 PM	28139
Surr: 4-Bromofluorobenzene	94.2	80-120		%Rec	1	10/20/2016 9:14:45 PM	28139

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	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610870

27-Oct-16

Client: EOG

Project: Biplane BNZ State Com 1

Sample ID	MB-28251	SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID:	PBS	Batch ID: 28251		RunNo: 38161						
Prep Date:	10/24/2016	Analysis Date: 10/24/2016		SeqNo: 1191020		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-28251	SampType: lcs			TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID: 28251			RunNo: 38161					
Prep Date:	10/24/2016	Analysis Date: 10/24/2016			SeqNo: 1191021		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.6	90	110			

Sample ID	MB-28282	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	28282	RunNo:	38270					
Prep Date:	10/25/2016	Analysis Date:	10/26/2016	SeqNo:	1194409	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-28282	SampType: LCS			TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID: 28282			RunNo: 38270					
Prep Date:	10/25/2016	Analysis Date: 10/26/2016			SeqNo: 1194410		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.7	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
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610870

27-Oct-16

Client: EOG

Project: Biplane BNZ State Com 1

Sample ID	LCS-28212	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	28212	RunNo:	38149					
Prep Date:	10/21/2016	Analysis Date:	10/24/2016	SeqNo:	1190787	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	109	62.6	124			
Surr: DNOP	4.9		5.000		97.9	70	130			

Sample ID	MB-28212	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	28212	RunNo:	38149					
Prep Date:	10/21/2016	Analysis Date:	10/24/2016	SeqNo:	1190788	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	9.7		10.00		97.3	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
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610870

27-Oct-16

Client: EOG

Project: Biplane BNZ State Com 1

Sample ID	MB-28139	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	28139	RunNo:	38105					
Prep Date:	10/19/2016	Analysis Date:	10/20/2016	SeqNo:	1188893	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	820		1000		82.1	68.3	144			

Sample ID	LCS-28139	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	28139	RunNo:	38105					
Prep Date:	10/19/2016	Analysis Date:	10/20/2016	SeqNo:	1188894	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	114	74.6	123			
Surr: BFB	900		1000		90.0	68.3	144			

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
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610870

27-Oct-16

Client: EOG

Project: Biplane BNZ State Com 1

Sample ID	MB-28139	SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS	Batch ID:	28139		RunNo:	38105				
Prep Date:	10/19/2016	Analysis Date:	10/20/2016		SeqNo:	1188925	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		94.9	80	120			

Sample ID	LCS-28139		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 28139		RunNo: 38105					
Prep Date:	10/19/2016		Analysis Date: 10/20/2016		SeqNo: 1188926		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	108	75.2	115			
Toluene	1.0	0.050	1.000	0	102	80.7	112			
Ethylbenzene	1.0	0.050	1.000	0	100	78.9	117			
Xylenes, Total	3.0	0.10	3.000	0	99.3	79.2	115			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

Sample Log-In Check List

Client Name: EOG/Yates

Work Order Number 1610870

RcptNo: 1

Received by/date:

Logged By: Ashley Gallegos

10/18/2016 9:35:00 AM

Completed By: Ashley Gallegos

10/18/2016 2:22:09 PM

Reviewed By:

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	2.8	Good	Yes			

ient: EOG

☒ Standard ☐ Rush

Project Name:

Mailing Address:

Biplane BNZ State Com #1

205 South 4th Street Artesia. NM 88210

Phone #: 575-703-6537

mail or Fax#: csettle@vatespetroleum.com

A/QC Packade:

☐ Level 4 (Full Validation)

Digitized by Google

☐ NELAP ☐ Other

EDD (Type)

Date	Time	Matrix	Sample Request ID
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Container Type and #	Fleese Valve Type
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HEAL No.

3

0.575	
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[illegible]

2.007

2:41P

2:43P

3:05P

3:06P

3.000

0.100	
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1	1
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511115

+

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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ate:	Time:	Relinquished by:
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Received by:

Date	Time
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ate:	Time:	Relinquished by:
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Received by:

Date Time

Remarks: Results needed within 1 week of receiving.

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
1/13/06	2:37P	Soil	S1-1'	1 - 4oz.	ICE	-601
	2:38P	Soil	S1-2'	1 - 4oz.	ICE	-602
	2:41P	Soil	S1-3'	1 - 4oz.	ICE	-603
	2:43P	Soil	S1-4'	1 - 4oz.	ICE	-604
	3:05P	Soil	S2-1'	1 - 4oz.	ICE	-605
	3:06P	Soil	S2-2'	1 - 4oz.	ICE	-606
	3:09P	Soil	S2-3'	1 - 4oz.	ICE	-607
	3:12P	Soil	S2-4'	1 - 4oz.	ICE	-608
1/17/06						