



Friday, February 28, 2020

Ross Talboom
EOG Resources
600 17th Street, Suite 1000N
Denver, CO 80202

Re: ALS Workorder: 2002396
Project Name: Simba 1-06 SWD February 12, 2020 Spill
Project Number:

Dear Mr. Talboom:

Three soil samples were received from EOG Resources, on 2/24/2020. The samples were scheduled for the following analyses:

GC/MS Volatiles

Inorganics

Total Extractable Petroleum Hydrocarbons (Diesel)

Total Volatile Petroleum Hydrocarbons (Gasoline)

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Katie M. O'Brien
Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
AIHA	214884
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
PJ-LA (DoD ELAP/ISO 170250)	95377
Louisiana (LA)	05057
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



2002396

GC/MS Volatiles:

The samples were analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

All acceptance criteria were met.

GRO:

The samples were analyzed following the current revision of SOP 425 generally based on SW-846 Methods 8000C and 8015D. TVPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C6 to C10.

All acceptance criteria were met.

DRO:

The samples were analyzed following the current revision of SOP 406 generally based on SW-846 Methods 8000C and 8015D. TEPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C10 to C28.

All acceptance criteria were met.

Inorganics:

The samples were analyzed following USDA Handbook 60 Chapter 6 procedures for the current revision of the following SOP and method:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
Electrical conductivity	USDA60	810 Draft
Sodium Adsorption Ratio	USDA60	810 Draft
Paste pH	USDA60	810 Draft

All acceptance criteria were met.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 2002396

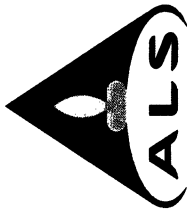
Client Name: EOG Resources

Client Project Name: Simba 1-06 SWD February 12, 2020 Spill

Client Project Number:

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
Simba #1 - Near Wellhead	2002396-1		SOIL	21-Feb-20	12:35
Simba #2 - Next to Offload	2002396-2		SOIL	21-Feb-20	12:41
Simba #3 - West Edge	2002396-3		SOIL	21-Feb-20	12:44
Simba #1 - Near Wellhead	2002396-4		SatExtract	21-Feb-20	12:35
Simba #2 - Next to Offload	2002396-5		SatExtract	21-Feb-20	12:41
Simba #3 - West Edge	2002396-6		SatExtract	21-Feb-20	12:44



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(Fax) 281.530.5887

Chain of Custody Form

Page 1 of 1

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3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

2002306

Customer Information				ALS Project Manager:		ALS Work Order #:											
Project Information				Parameter/Method Request for Analysis													
Purchase Order	Project Name	Project Number	TPH	A	B	C	D										
Work Order	Simba 1-06 SWD February 12, 2020 Spill		BTEX														
Company Name	EOG Resources, Inc.	Bill To Company	EC														
Send Report To	Ross Talboom, Mark Smith	Invoice Attn.	pH														
Address	600 17th St. 1000N	Address	SAR														
City/State/Zip	Denver, CO 80210	City/State/Zip															
Phone	303-565-9941	Phone															
Fax		Fax															
e-Mail Address	ross.talboom@eogresources.com																
	mark.smith@eogresources.com																
No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Simba #1 - Near Wellhead	2/21/2020	12:35pm	Soil/Sand		2	X	X	X	X	X						
2	Simba #2 - Next to Offload	2/21/2020	12:41pm	Soil/Sand		2	X	X	X	X	X						
3	Simba #3 - West Edge	2/21/2020	12:44pm	Soil/Sand		2	X	X	X	X	X						
4																	
5																	
6																	
7																	
8																	
9																	
10																	
Sampler(s): Please Print & Sign <i>Mark D. Smith</i>				Ship Method: Drop off		Turnaround Time in Business Days (BD): <input type="checkbox"/> 10 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 3 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> 1 BD		Results Due Date: Rush - ASAP									
Relinquished by: Mark D. Smith				Received by: Claire Gable		Date: 2/24/2020		Time: 3:00pm									
Relinquished by: Claire Gable				Received by (Laboratory): <i>[Signature]</i>		Date: 2/24/2020		Time: 4:30pm									
Logged by (Laboratory): 5 of 1				Checked by (Laboratory):		Date:		Time:									
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-None/4°C				ALS Cooler ID		Cooler Temp		QC Package: (Check Box Below) <input type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Raw Data <input type="checkbox"/> TRRP LRC <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV: SW846 Methods/CLP like <input type="checkbox"/> Other:									

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: EOG Workorder No: 2062326
Project Manager: KMO Initials: TM Date: 2/24/20

1. Are airbills / shipping documents present and/or removable?		<u>DROP OFF</u>	YES	NO
2. Are custody seals on shipping containers intact?		<u>NONE</u>	YES	NO *
3. Are custody seals on sample containers intact?		<u>NONE</u>	YES	NO *
4. Is there a COC (chain-of-custody) present?		<u>YES</u>		NO *
5. Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.)		<u>YES</u>		NO *
6. Are short-hold samples present?		<u>YES</u>		NO
7. Are all samples within holding times for the requested analyses?		<u>YES</u>		NO *
8. Were all sample containers received intact? (not broken or leaking)		<u>YES</u>		NO *
9. Is there sufficient sample for the requested analyses?		<u>YES</u>		NO *
10. Are samples in proper containers for requested analyses? (form 250, Sample Handling Guidelines)		<u>YES</u>		NO *
11. Are all aqueous samples preserved correctly, if required? (excluding volatiles)		<u>N/A</u>	YES	NO *
12. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles > 6 mm (1/4 inch) diameter? (i.e. size of green pea)		<u>N/A</u>	YES	NO
13. Were the samples shipped on ice?		<u>YES</u>		NO
14. Were cooler temperatures measured at 0.1-6.0°C?	IR gun used*: #3 <u>#5</u>		RAD ONLY <u>YES</u>	NO
Cooler #: <u>1</u>				
Temperature (°C): <u>2-2</u>				
# of custody seals on cooler: <u>0</u>				
External mR/hr reading: <u>1</u>				
Background mR/hr reading: <u>11</u>				
Were external mR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / <u>NA</u> (If no, see Form 008.)				

* Please provide details here for NO responses to gray boxes above - for 2 thru 5 & 7 thru 12, notify PM & continue w/ login.

Were unpreserved bottles pH checked? YES / NA All client bottle ID's vs ALS lab ID's double-checked by: TM

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: [Signature] 2/25/20

Client:	EOG Resources	Date:	28-Feb-20
Project:	Simba 1-06 SWD February 12, 2020 Spill	Work Order:	2002396
Sample ID:	Simba #1 - Near Wellhead	Lab ID:	2002396-1
Legal Location:		Matrix:	SOIL
Collection Date:	2/21/2020 12:35	Percent Moisture:	8.3

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 2/27/2020	PrepBy: CCL
Diesel Range Organics	150	M	8.7	MG/KG	1	2/27/2020 12:25
Surr: O-TERPHENYL	77		49-114	%REC	1	2/27/2020 12:25
Gasoline Range Organics			SW8015		Prep Date: 2/26/2020	PrepBy: CCL
GASOLINE RANGE ORGANICS	ND		0.51	MG/KG	1	2/26/2020 11:39
Surr: 2,3,4-TRIFLUOROTOLUENE	89		76-126	%REC	1	2/26/2020 11:39
GC/MS Volatiles			SW8260		Prep Date: 2/25/2020	PrepBy: JXK
BENZENE	ND		5.4	UG/KG	1	2/25/2020 15:28
TOLUENE	ND		5.4	UG/KG	1	2/25/2020 15:28
ETHYLBENZENE	ND		5.4	UG/KG	1	2/25/2020 15:28
M+P-XYLENE	ND		5.4	UG/KG	1	2/25/2020 15:28
O-XYLENE	ND		5.4	UG/KG	1	2/25/2020 15:28
TOTAL XYLENES	ND		5	UG/KG	1	2/25/2020 15:28
Surr: DIBROMOFLUOROMETHANE	107		61-134	%REC	1	2/25/2020 15:28
Surr: TOLUENE-D8	96		57-135	%REC	1	2/25/2020 15:28
Surr: 4-BROMOFLUOROBENZENE	90		52-151	%REC	1	2/25/2020 15:28
Sodium Adsorption Ratio			USDA60		Prep Date: 2/27/2020	PrepBy: LMC
PASTE PH	7.7		0.1	pH	1	2/27/2020

Client:	EOG Resources	Date:	28-Feb-20
Project:	Simba 1-06 SWD February 12, 2020 Spill	Work Order:	2002396
Sample ID:	Simba #2 - Next to Offload	Lab ID:	2002396-2
Legal Location:		Matrix:	SOIL
Collection Date:	2/21/2020 12:41	Percent Moisture:	9.2

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 2/27/2020	PrepBy: CCL
Diesel Range Organics	ND		8.7	MG/KG	1	2/27/2020 12:46
Surr: O-TERPHENYL	77		49-114	%REC	1	2/27/2020 12:46
Gasoline Range Organics			SW8015		Prep Date: 2/26/2020	PrepBy: CCL
GASOLINE RANGE ORGANICS	ND		0.53	MG/KG	1	2/26/2020 12:01
Surr: 2,3,4-TRIFLUOROTOLUENE	89		76-126	%REC	1	2/26/2020 12:01
GC/MS Volatiles			SW8260		Prep Date: 2/25/2020	PrepBy: JXK
BENZENE	ND		5.5	UG/KG	1	2/25/2020 15:51
TOLUENE	ND		5.5	UG/KG	1	2/25/2020 15:51
ETHYLBENZENE	ND		5.5	UG/KG	1	2/25/2020 15:51
M+P-XYLENE	ND		5.5	UG/KG	1	2/25/2020 15:51
O-XYLENE	ND		5.5	UG/KG	1	2/25/2020 15:51
TOTAL XYLENES	ND		5	UG/KG	1	2/25/2020 15:51
Surr: DIBROMOFLUOROMETHANE	108		61-134	%REC	1	2/25/2020 15:51
Surr: TOLUENE-D8	96		57-135	%REC	1	2/25/2020 15:51
Surr: 4-BROMOFLUOROBENZENE	90		52-151	%REC	1	2/25/2020 15:51
Sodium Adsorption Ratio			USDA60		Prep Date: 2/27/2020	PrepBy: LMC
PASTE PH	7.6		0.1	pH	1	2/27/2020

Client:	EOG Resources	Date:	28-Feb-20
Project:	Simba 1-06 SWD February 12, 2020 Spill	Work Order:	2002396
Sample ID:	Simba #3 - West Edge	Lab ID:	2002396-3
Legal Location:		Matrix:	SOIL
Collection Date:	2/21/2020 12:44	Percent Moisture:	8.8

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 2/27/2020	PrepBy: CCL
Diesel Range Organics	ND		8.6	MG/KG	1	2/27/2020 13:08
Surr: O-TERPHENYL	78		49-114	%REC	1	2/27/2020 13:08
Gasoline Range Organics			SW8015		Prep Date: 2/26/2020	PrepBy: CCL
GASOLINE RANGE ORGANICS	ND		0.53	MG/KG	1	2/26/2020 12:23
Surr: 2,3,4-TRIFLUOROTOLUENE	89		76-126	%REC	1	2/26/2020 12:23
GC/MS Volatiles			SW8260		Prep Date: 2/25/2020	PrepBy: JXK
BENZENE	ND		5.4	UG/KG	1	2/25/2020 16:15
TOLUENE	ND		5.4	UG/KG	1	2/25/2020 16:15
ETHYLBENZENE	ND		5.4	UG/KG	1	2/25/2020 16:15
M+P-XYLENE	ND		5.4	UG/KG	1	2/25/2020 16:15
O-XYLENE	ND		5.4	UG/KG	1	2/25/2020 16:15
TOTAL XYLENES	ND		5	UG/KG	1	2/25/2020 16:15
Surr: DIBROMOFLUOROMETHANE	109		61-134	%REC	1	2/25/2020 16:15
Surr: TOLUENE-D8	93		57-135	%REC	1	2/25/2020 16:15
Surr: 4-BROMOFLUOROBENZENE	92		52-151	%REC	1	2/25/2020 16:15
Sodium Adsorption Ratio			USDA60		Prep Date: 2/27/2020	PrepBy: LMC
PASTE PH	7.6		0.1	pH	1	2/27/2020

Client:	EOG Resources	Date:	28-Feb-20
Project:	Simba 1-06 SWD February 12, 2020 Spill	Work Order:	2002396
Sample ID:	Simba #1 - Near Wellhead	Lab ID:	2002396-4
Legal Location:		Matrix:	SATEXTRACT
Collection Date:	2/21/2020 12:35	Percent Moisture:	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ICP Metals		USDA60			Prep Date: 2/25/2020	PrepBy: JML
CALCIUM	110		10	MG/L	10	2/26/2020 12:49
MAGNESIUM	40		10	MG/L	10	2/26/2020 12:49
SODIUM	190		10	MG/L	10	2/26/2020 12:49
Sodium Adsorption Ratio		USDA60			Prep Date: 2/27/2020	PrepBy: LMC
ELECTRICAL CONDUCTIVITY @ SATURATION	2200		1	umhos/cm	1	2/27/2020
SODIUM ADSORPTION RATIO	4		0.54	NU	10	2/26/2020 12:49

Client: EOG Resources

Date: 28-Feb-20

Project: Simba 1-06 SWD February 12, 2020 Spill

Work Order: 2002396

Sample ID: Simba #2 - Next to Offload

Lab ID: 2002396-5

Legal Location:

Matrix: SATExtract

Collection Date: 2/21/2020 12:41

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ICP Metals						
		USDA60			Prep Date: 2/25/2020	PrepBy: JML
CALCIUM	290		10	MG/L	10	2/26/2020 12:50
MAGNESIUM	100		10	MG/L	10	2/26/2020 12:50
SODIUM	380		10	MG/L	10	2/26/2020 12:50
Sodium Adsorption Ratio						
		USDA60			Prep Date: 2/27/2020	PrepBy: LMC
ELECTRICAL CONDUCTIVITY @ SATURATION	4900		1	umhos/cm	1	2/27/2020
SODIUM ADSORPTION RATIO	4.9		0.54	NU	10	2/26/2020 12:50

Client: EOG Resources

Date: 28-Feb-20

Project: Simba 1-06 SWD February 12, 2020 Spill

Work Order: 2002396

Sample ID: Simba #3 - West Edge

Lab ID: 2002396-6

Legal Location:

Matrix: SATExtract

Collection Date: 2/21/2020 12:44

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ICP Metals						
		USDA60			Prep Date: 2/25/2020	PrepBy: JML
CALCIUM	540		10	MG/L	10	2/26/2020 12:51
MAGNESIUM	140		10	MG/L	10	2/26/2020 12:51
SODIUM	790		10	MG/L	10	2/26/2020 12:51
Sodium Adsorption Ratio						
		USDA60			Prep Date: 2/27/2020	PrepBy: LMC
ELECTRICAL CONDUCTIVITY @ SATURATION	9000		1	umhos/cm	1	2/27/2020
SODIUM ADSORPTION RATIO	7.8		0.54	NU	10	2/26/2020 12:51

Client:	EOG Resources	Date:	28-Feb-20
Project:	Simba 1-06 SWD February 12, 2020 Spill	Work Order:	2002396
Sample ID:	Simba #3 - West Edge	Lab ID:	2002396-6
Legal Location:		Matrix:	SATEXTRACT
Collection Date:	2/21/2020 12:44	Percent Moisture:	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
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Explanation of Qualifiers

Radiochemistry:

- "Report Limit" is the MDC	M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
U or ND - Result is less than the sample specific MDC.	L - LCS Recovery below lower control limit.
Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.	H - LCS Recovery above upper control limit.
Y2 - Chemical Yield outside default limits.	P - LCS, Matrix Spike Recovery within control limits.
W - DER is greater than Warning Limit of 1.42	N - Matrix Spike Recovery outside control limits
* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.	NC - Not Calculated for duplicate results less than 5 times MDC
# - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.	B - Analyte concentration greater than MDC.
G - Sample density differs by more than 15% of LCS density.	B3 - Analyte concentration greater than MDC but less than Requested MDC.
D - DER is greater than Control Limit	
M - Requested MDC not met.	

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

* - Duplicate analysis (relative percent difference) not within control limits.

S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

X - The analyte was diluted below an accurate quantitation level.

* - The spike recovery is equal to or outside the control criteria used.

+ - The relative percent difference (RPD) equals or exceeds the control criteria.

G - A pattern resembling gasoline was detected in this sample.

D - A pattern resembling diesel was detected in this sample.

M - A pattern resembling motor oil was detected in this sample.

C - A pattern resembling crude oil was detected in this sample.

4 - A pattern resembling JP-4 was detected in this sample.

5 - A pattern resembling JP-5 was detected in this sample.

H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.

L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.

Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:

- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

ALS -- Fort Collins

Date: 2/28/2020 11:29

Client: EOG Resources

QC BATCH REPORT

Work Order: 2002396

Project: Simba 1-06 SWD February 12, 2020 Spill

Batch ID: HC200226-61-1

Instrument ID: FUELS-1

Method: SW8015

LCS	Sample ID: HC200226-61			Units: MG/KG			Analysis Date: 2/26/2020 10:10				
Client ID:	Run ID: HC200226-6A						Prep Date: 2/26/2020		DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	2.44	0.5	2.5		98	79-118				20	
Surr: 2,3,4-TRIFLUOROTOLUENE	0.459		0.5		92	76-126					

LCSD	Sample ID: HC200226-61			Units: MG/KG			Analysis Date: 2/26/2020 13:53				
Client ID:	Run ID: HC200226-6A						Prep Date: 2/26/2020		DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	2.44	0.5	2.5		98	79-118		2.44	0	20	
Surr: 2,3,4-TRIFLUOROTOLUENE	0.458		0.5		92	76-126			0		

MB		Sample ID: HC200226-61			Units: MG/KG		Analysis Date: 2/26/2020 10:33		
Client ID:		Run ID: HC200226-6A			Prep Date: 2/26/2020		DF: 1		
Analyte		Result	ReportLimit						Qual
GASOLINE RANGE ORGANICS		ND	0.5						
Surr: 2,3,4-TRIFLUOROTOLUENE		0.476			95	76-126			

The following samples were analyzed in this batch:

2002396-1	2002396-2	2002396-3
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Client: EOG Resources
Work Order: 2002396
Project: Simba 1-06 SWD February 12, 2020 Spill

QC BATCH REPORT

Batch ID: **HC200227-81-1** Instrument ID: **FUELS-1** Method: **SW8015M**

LCS	Sample ID: HC200227-81				Units: MG/KG		Analysis Date: 2/27/2020 11:41				
Client ID:	Run ID: HC200227-8A				Prep Date: 2/27/2020			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	54	8	62.5		86	81-129				20	
Surr: O-TERPHENYL	8.5		12.5		68	49-114					

LCSD	Sample ID: HC200227-81				Units: MG/KG			Analysis Date: 2/27/2020 12:03			
Client ID:		Run ID: HC200227-8A				Prep Date: 2/27/2020			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	54.3	8	62.5		87	81-129		54	1	20	
Surr: O-TERPHENYL	8.47		12.5		68	49-114			0		

MB	Sample ID: HC200227-81			Units: MG/KG			Analysis Date: 2/27/2020 11:19		
Client ID:		Run ID: HC200227-8A			Prep Date: 2/27/2020			DF: 1	
Analyte		Result	ReportLimit						
Diesel Range Organics		ND	8						
Surr: O-TERPHENYL		8.79			70	49-114			

The following samples were analyzed in this batch:

2002396-1	2002396-2	2002396-3
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Client: EOG Resources
 Work Order: 2002396
 Project: Simba 1-06 SWD February 12, 2020 Spill

QC BATCH REPORT

Batch ID: **VL200225-2-1** Instrument ID: **HPV2** Method: **SW8260**

LCS	Sample ID: VL200225-2			Units: UG/KG		Analysis Date: 2/25/2020 13:30					
Client ID:	Run ID: VL200225-2A			Prep Date: 2/25/2020			DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
BENZENE	41.3	5	40		103	73-126				30	
TOLUENE	37.5	5	40		94	71-127				30	
ETHYLBENZENE	38.3	5	40		96	74-127				30	
M+P-XYLENE	75.2	5	80		94	79-126				30	
O-XYLENE	37.5	5	40		94	77-125				30	
Surr: DIBROMOFLUOROMETHANE	52.1		50		104	61-134					
Surr: TOLUENE-D8	47.3		50		95	57-135					
Surr: 4-BROMOFLUOROBENZENE	47.5		50		95	52-151					

LCSD	Sample ID: VL200225-2			Units: UG/KG		Analysis Date: 2/25/2020 13:54					
Client ID:	Run ID: VL200225-2A			Prep Date: 2/25/2020				DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
BENZENE	40.6	5	40		101	73-126		41.3	2	30	
TOLUENE	37.4	5	40		93	71-127		37.5	0	30	
ETHYLBENZENE	38.1	5	40		95	74-127		38.3	1	30	
M+P-XYLENE	76.4	5	80		95	79-126		75.2	1	30	
O-XYLENE	37.7	5	40		94	77-125		37.5	1	30	
Surr: DIBROMOFLUOROMETHANE	52.7		50		105	61-134			1		
Surr: TOLUENE-D8	48.2		50		96	57-135			2		
Surr: 4-BROMOFLUOROBENZENE	48		50		96	52-151			1		

MB	Sample ID: VL200225-2	Units: UG/KG		Analysis Date: 2/25/2020 14:41	
Client ID:	Run ID: VL200225-2A	Prep Date: 2/25/2020		DF: 1	
Analyte	Result	ReportLimit	Qual		
BENZENE	ND	5			
TOLUENE	ND	5			
ETHYLBENZENE	ND	5			
M+P-XYLENE	ND	5			
O-XYLENE	ND	5			
TOTAL XYLENES	ND	5			
Surr: DIBROMOFLUOROMETHANE	52.7		105	61-134	
Surr: TOLUENE-D8	47.4		95	57-135	
Surr: 4-BROMOFLUOROBENZENE	45.2		90	52-151	

The following samples were analyzed in this batch:

2002396-1 2002396-2 2002396-3