



24-Apr-2015

Mark Mumby  
HRL Compliance Solutions, Inc  
2385 F 1/2 Road  
Grand Junction, CO 81505

Re: **Grynberg Petroleum**

Work Order: **15041369**

Dear Mark,

ALS Environmental received 4 samples on 23-Apr-2015 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

*Chad Whelton*

Electronically approved by: Chad Whelton

Chad Whelton  
Project Manager



Certificate No: MN 532786

### Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

**Client:** HRL Compliance Solutions, Inc  
**Project:** Grynberg Petroleum  
**Work Order:** 15041369

## Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
15041369-01	NE Wall	Soil		4/22/2015 08:45	4/23/2015 10:00	<input type="checkbox"/>
15041369-02	SE Wall	Soil		4/22/2015 09:20	4/23/2015 10:00	<input type="checkbox"/>
15041369-03	NW Wall	Soil		4/22/2015 10:00	4/23/2015 10:00	<input type="checkbox"/>
15041369-04	SW Wall	Soil		4/22/2015 10:30	4/23/2015 10:00	<input type="checkbox"/>

**Client:** HRL Compliance Solutions, Inc  
**Project:** Grynberg Petroleum  
**WorkOrder:** 15041369

## **QUALIFIERS, ACRONYMS, UNITS**

<b><u>Qualifier</u></b>	<b><u>Description</u></b>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

<b><u>Acronym</u></b>	<b><u>Description</u></b>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<b><u>Units Reported</u></b>	<b><u>Description</u></b>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight

**ALS Group USA, Corp****Date:** 24-Apr-15**Client:** HRL Compliance Solutions, Inc**Project:** Grynberg Petroleum**Sample ID:** NE Wall**Collection Date:** 4/22/2015 08:45 AM**Work Order:** 15041369**Lab ID:** 15041369-01**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
<b>DIESEL RANGE ORGANICS BY GC-FID</b>			<b>SW8015M</b>		Prep: SW3541 / 4/23/15	Analyst: <b>IT</b>
<b>DRO (C10-C28)</b>	<b>15</b>		<b>4.7</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/23/2015 05:59 PM
<i>Surr: 4-Terphenyl-d14</i>	70.3		39-133	%REC	1	4/23/2015 05:59 PM
<b>MOISTURE</b>			<b>E160.3M</b>			Analyst: <b>EVB</b>
<b>Moisture</b>	<b>11</b>		<b>0.050</b>	<b>% of sample</b>	<b>1</b>	4/23/2015 03:20 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group USA, Corp****Date:** 24-Apr-15**Client:** HRL Compliance Solutions, Inc**Project:** Grynberg Petroleum**Sample ID:** SE Wall**Collection Date:** 4/22/2015 09:20 AM**Work Order:** 15041369**Lab ID:** 15041369-02**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
<b>DIESEL RANGE ORGANICS BY GC-FID</b>			<b>SW8015M</b>		Prep: SW3541 / 4/23/15	Analyst: <b>IT</b>
DRO (C10-C28)	ND		4.6	mg/Kg-dry	1	4/23/2015 06:29 PM
Surr: 4-Terphenyl-d14	78.4		39-133	%REC	1	4/23/2015 06:29 PM
<b>MOISTURE</b>			<b>E160.3M</b>			Analyst: <b>EVB</b>
Moisture	10		0.050	% of sample	1	4/23/2015 03:20 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group USA, Corp****Date:** 24-Apr-15**Client:** HRL Compliance Solutions, Inc**Project:** Grynberg Petroleum**Sample ID:** NW Wall**Collection Date:** 4/22/2015 10:00 AM**Work Order:** 15041369**Lab ID:** 15041369-03**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
<b>DIESEL RANGE ORGANICS BY GC-FID</b>			<b>SW8015M</b>		Prep: SW3541 / 4/23/15	Analyst: <b>IT</b>
<b>DRO (C10-C28)</b>	<b>60</b>		<b>4.7</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/23/2015 06:59 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>69.4</i>		<i>39-133</i>	<i>%REC</i>	<i>1</i>	4/23/2015 06:59 PM
<b>MOISTURE</b>			<b>E160.3M</b>			Analyst: <b>EVB</b>
<b>Moisture</b>	<b>14</b>		<b>0.050</b>	<b>% of sample</b>	<b>1</b>	4/23/2015 03:20 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group USA, Corp**

Date: 24-Apr-15

Client: HRL Compliance Solutions, Inc

Project: Grynberg Petroleum

Sample ID: SW Wall

Collection Date: 4/22/2015 10:30 AM

Work Order: 15041369

Lab ID: 15041369-04

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
<b>DIESEL RANGE ORGANICS BY GC-FID</b>			<b>SW8015M</b>		Prep: SW3541 / 4/23/15	Analyst: <b>IT</b>
<b>DRO (C10-C28)</b>	<b>14</b>		<b>4.7</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/23/2015 05:29 PM
Surr: 4-Terphenyl-d14	78.9		39-133	%REC	1	4/23/2015 05:29 PM
<b>MOISTURE</b>			<b>E160.3M</b>			Analyst: <b>EVB</b>
<b>Moisture</b>	<b>14</b>		<b>0.050</b>	<b>% of sample</b>	<b>1</b>	4/23/2015 03:20 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15041369  
**Project:** Grynberg Petroleum

# QC BATCH REPORT

Batch ID: **70198** Instrument ID **GC8** Method: **SW8015M**

<b>MBLK</b>		Sample ID: <b>DBLKS1-70198-70198</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/23/2015 03:29 PM</b>		
Client ID:		Run ID: <b>GC8_150423A</b>				SeqNo: <b>3239744</b>		Prep Date: <b>4/23/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	ND	5.0								
<i>Surr: 4-Terphenyl-d14</i>	1.716	0	2	0	85.8	39-133	0			

<b>LCS</b>		Sample ID: <b>DLCSS1-70198-70198</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/23/2015 03:59 PM</b>		
Client ID:		Run ID: <b>GC8_150423A</b>				SeqNo: <b>3239745</b>		Prep Date: <b>4/23/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	189.1	5.0	200	0	94.5	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	1.374	0	2	0	68.7	39-133	0			

<b>MS</b>		Sample ID: <b>15041369-04A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/23/2015 04:29 PM</b>		
Client ID: <b>SW Wall</b>		Run ID: <b>GC8_150423A</b>				SeqNo: <b>3239746</b>		Prep Date: <b>4/23/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	288.7	8.3	333.2	12.2	83	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	2.226	0	3.332	0	66.8	39-133	0			

<b>MSD</b>		Sample ID: <b>15041369-04A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/23/2015 04:59 PM</b>		
Client ID: <b>SW Wall</b>		Run ID: <b>GC8_150423A</b>				SeqNo: <b>3239748</b>		Prep Date: <b>4/23/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	288.1	8.1	323	12.2	85.4	48-110	288.7	0.2	30	
<i>Surr: 4-Terphenyl-d14</i>	2.186	0	3.23	0	67.7	39-133	2.226	1.8	30	

The following samples were analyzed in this batch:

15041369-01A	15041369-02A	15041369-03A
15041369-04A		



**Client:** HRL Compliance Solutions, Inc  
**Work Order:** 15041369  
**Project:** Grynberg Petroleum

## QC BATCH REPORT

Batch ID: **R161992**      Instrument ID **MOIST**      Method: **E160.3M**

<b>MBLK</b>		Sample ID: <b>WBLKS-R161992</b>				Units: % of sample		Analysis Date: <b>4/23/2015 03:20 PM</b>		
Client ID:		Run ID: <b>MOIST_150423B</b>				SeqNo: <b>3240836</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture      ND      0.050

<b>LCS</b>		Sample ID: <b>LCS-R161992</b>				Units: % of sample		Analysis Date: <b>4/23/2015 03:20 PM</b>		
Client ID:		Run ID: <b>MOIST_150423B</b>				SeqNo: <b>3240835</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture      100      0.050      100      0      100      99.5-100.5      0

<b>DUP</b>		Sample ID: <b>15041140-01B DUP</b>				Units: % of sample		Analysis Date: <b>4/23/2015 03:20 PM</b>		
Client ID:		Run ID: <b>MOIST_150423B</b>				SeqNo: <b>3240828</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture      3.77      0.050      0      0      0      3.96      4.92      20

<b>DUP</b>		Sample ID: <b>15041140-02B DUP</b>				Units: % of sample		Analysis Date: <b>4/23/2015 03:20 PM</b>		
Client ID:		Run ID: <b>MOIST_150423B</b>				SeqNo: <b>3240830</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture      5.3      0.050      0      0      0      5.08      4.24      20

The following samples were analyzed in this batch:

15041369-01A	15041369-02A	15041369-03A
15041369-04A		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



# ALS Laboratory Group

3352 128th Avenue Holland MI, 49424

PH: (818) 399-6070

## Chain-of-Custody

Form 202r6

WORKORDER #

15041369

PAGE

of

1

DISPOSAL

By Lab or

Return to Client

PROJECT NAME

Grynberg Petroleum

PROJECT No.

HRH 15-050 Task 3

SAMPLER

MEM

SITE ID

Federal 1-32

EDD FORMAT

PURCHASE ORDER

COMPANY NAME

HRH Compliance Sol.

BILL TO COMPANY

HRH Compliance

SEND REPORT TO

Mark Mumbly

INVOICE ATTN TO

Melissa Rose

ADDRESS

2385 F1/2 Rd

ADDRESS

Same

CITY / STATE / ZIP

Grand Tkt. CO 81525

CITY / STATE / ZIP

PHONE

970-243-3271

PHONE

FAX

970-243-3271

FAX

E-MAIL

mmumbly@hrhcomp.com

E-MAIL

mderose@hrhcomp.com

Lab ID

Field ID

Matrix

Sample Date

Sample Time

# Bottles

Pres.

QC

1

NE Well

S

4/22/15

08:45

1

8

X

2

SE Well

↓

↓

09:20

↓

↓

X

3

NW Well

↓

↓

10:00

↓

↓

X

4

SW Well

↓

↓

10:30

↓

↓

X

DRO

\*Time Zone (Circle): EST CST MST PST Matrix O=oil S=soil NS=non-soil solid W=water L=liquid E=extract F=filter

For metals or anions, please detail analytes below.

Comments:

@  
21°C

QC PACKAGE (check below)

2

LEVEL II (Standard QC)

LEVEL III (Std QC + forms)

LEVEL IV (Std QC + forms + raw data)

RELINQUISHED BY

Melissa Rose

SIGNATURE

Mark E. Mumbly

DATE

4/22/15

TIME

11:20

RECEIVED BY

T.B. Smith

Mark E. Mumbly

04/22/15

17:30

RELINQUISHED BY

Diane F. Sha

Diane F. Sha

11:00

05:05

RECEIVED BY

Diane F. Sha

Diane F. Sha

11:00

05:05

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

DO NOT LIFT USING THIS TAB

Align FedEx Pouch Here

fedex.com 1.800.GoFedEx 1.800.463.3339

CUSTODY SEAL

DATE

SIGNATURE

4/22/15

*[Signature]*

QEC

Quality Environmental Containers  
800-255-3950 • 304-255-3900

ORIGIN ID:GJTA (616) 399-6070  
ALS ENVIRONMENTAL HOLLAND LAB

3352 128TH AVE

HOLLAND, MI 494249263  
UNITED STATES US

TO SAMPLE RECEIVING  
ALS ENVIRONMENTAL  
H AVE

MI 49424

REF 1

DEPT:

SHIP DATE: 22APR15  
ACTWT: 19.5 LB  
CAD: /POS1601  
DIMS: 15x19x10 IN.

BILL SENDER

Part # 150297-255 (12/08/14)

**FedEx** NEW Package  
Express US Airbill

FedEx  
Tracking  
Number

8059 2387 5547

1 From

Date

4/22/15

Sender's  
Name

Reed Wild

Phone

970 243 3071

Company

HLA compliance

Address

2385 F/A Rd

Dept./Floor/Suite/Room

City

Grand Junction

State

CO

ZIP

81505

2 Your Internal BILLING Reference

3 To

Recipient's  
Name

Sample Receiving

Phone

616 399-6070

Company

ALS Group

Address

3352 128th Ave

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for confirmation of your shipping address.

City

Holland

State

MI

ZIP

49424

HOLD Weekday  
FedEx location address  
REQUIRED. NOT available for  
FedEx First Overnight.

☐

HOLD Saturday  
FedEx location address  
REQUIRED. Available ONLY for  
FedEx Priority Overnight and  
FedEx 2Day to select locations.

☐

☐ No Signature Required  
Package may be left without  
obtaining a signature for delivery.

☐ Direct Signature  
Signature at recipient's address  
may sign for delivery. For optional.

☐ Indirect Signature  
If no one is available at recipient's  
address, someone at a neighboring  
address may sign for delivery. For  
residential deliveries only. For optional.

Does this shipment contain dangerous goods?

☒ No ☐ Yes  
As per attached  
Shipper's Declaration.

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging  
or placed in a FedEx Express Drop Box.

☐ Dry Ice  
Dry Ice, IATA 1845

☐ Cargo Aircraft Only

7 Payment **REF:**

☐ Sender  
Acct. No. in Separate  
Envelope

☒ Recipient

Enter FedEx Acct. No. or Credit Card No. below:

☐ Third Party

☐ Credit Card

Obtain recip.  
Acct. No.

☐ Cash/Check

Total Packages

Total Weight

Credit Card App.

Your liability is limited to USD100 unless you declare a higher value. See the current FedEx Service Guide for details.

644

**FedEx**  
Express

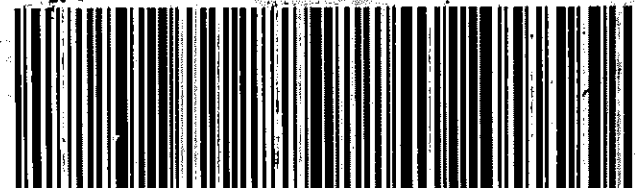


THU - 23 APR 10:30A  
PRIORITY OVERNIGHT

TRK# 8059 2387-5547  
0200

XX HLMA

49424  
MI - US GRR



1.800.463.3339

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 23-Apr-15 10:00

Work Order: 15041369

Received by: TBB

Checklist completed by Diane Shaw 23-Apr-15  
eSignature Date

Reviewed by: Chad Whelton 23-Apr-15  
eSignature Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>2.6 c</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>4/23/2015 10:44:52 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

-----

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: