



24-Mar-2015

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

Re: **Grynberg Petroleum Company: Federal 1-32 Oil Spill**

Work Order: **1503886**

Dear Mark,

ALS Environmental received 7 samples on 17-Mar-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 37.

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

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Environmental 

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Client: HRL Compliance Solutions, Inc
Project: Grynberg Petroleum Company: Federal 1-32 Oil Spill
Work Order: 1503886

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>
1503886-01	NW Wall	Soil		3/16/2015 09:45	3/17/2015 10:00	<input type="checkbox"/>
1503886-02	NE Wall	Soil		3/16/2015 09:50	3/17/2015 10:00	<input type="checkbox"/>
1503886-03	SW Wall	Soil		3/16/2015 09:55	3/17/2015 10:00	<input type="checkbox"/>
1503886-04	SE Wall	Soil		3/16/2015 10:00	3/17/2015 10:00	<input type="checkbox"/>
1503886-05	EXC. Bottom	Soil		3/16/2015 10:15	3/17/2015 10:00	<input type="checkbox"/>
1503886-06	Stockpile 1	Soil		3/16/2015 10:30	3/17/2015 10:00	<input type="checkbox"/>
1503886-07	Stockpile 2	Soil		3/16/2015 10:35	3/17/2015 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
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Work Order: 1503886

Case Narrative

Batch 68713, Method VOC_8260_S, Sample 1503886-06A: One or more VOC surrogate recoveries were above the upper control limits. The sample was non-detect, therefore, no qualification is required.

Batch 68714, Method GRO_8015_S, Sample 1503886-06A: GRO surrogate recovery high due to matrix interference.

Batch 68746, Method DRO_8015_S, Samples 1503886-02B, -04B, -06A and -07A: DRO surrogate recoveries high due to matrix interference.

Batch 68803, Method SVO_8270_S, Sample 1503886-02B: The reporting limits are elevated due to dilution for high concentrations of non-target analytes.

Batch 68803, Method SVO_8270_S, Sample 1503886-07A: SVOC surrogate recoveries out due to matrix interference.

Batch 68824, Method ICP_6010_S, Sample 1503886-04B MS/MSD: The MS and/or MSD recoveries were outside of the control limits for Barium and Zinc; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required.

Batch 68824, Method ICP_6010_S, Sample 1503886-04B MS/MSD: The MS and MSD recovery was above the upper control limit for Chromium. The corresponding result in the parent sample may be biased high.

Batch 68824, Method ICP_6010_S, Sample 1503886-04B MSD: The MSD recovery was outside of the control limit for Silver. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required.

<u>Qualifier</u>	<u>Description</u>
*	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.

<u>Acronym</u>	<u>Description</u>
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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	
s.u.	Standard Units

ALS Group USA, Corp

Date: 24-Mar-15

Client: HRL Compliance Solutions, Inc

Project: Grynberg Petroleum Company: Federal 1-32 Oil Spill

Work Order: 1503886

Sample ID: NW Wall

Lab ID: 1503886-01

Collection Date: 3/16/2015 09:45 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3541 / 3/18/15	Analyst: IT
DRO (C10-C28)	3,000		22	mg/Kg-dry	5	3/18/2015 09:19 PM
Surr: 4-Terphenyl-d14	126		39-133	%REC	5	3/18/2015 09:19 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep: SW5035 / 3/17/15	Analyst: IT
GRO (C6-C10)	21		2.7	mg/Kg-dry	1	3/17/2015 11:29 PM
Surr: Toluene-d8	99.9		50-150	%REC	1	3/17/2015 11:29 PM
MERCURY BY CVAA						
			SW7471B		Prep: SW7471 / 3/18/15	Analyst: LR
Mercury	ND		0.014	mg/Kg-dry	1	3/18/2015 03:19 PM
METALS ANALYSIS BY ICP						
			SW846 6010C		Prep: SW3050B / 3/19/15	Analyst: JEC
Arsenic	5.0		0.37	mg/Kg-dry	1	3/20/2015 04:45 PM
Barium	75		0.37	mg/Kg-dry	1	3/20/2015 04:45 PM
Cadmium	ND		0.30	mg/Kg-dry	1	3/20/2015 04:45 PM
Chromium	5.8		0.37	mg/Kg-dry	1	3/20/2015 04:45 PM
Copper	6.8		0.37	mg/Kg-dry	1	3/20/2015 04:45 PM
Lead	8.1		0.37	mg/Kg-dry	1	3/20/2015 04:45 PM
Nickel	9.7		0.37	mg/Kg-dry	1	3/20/2015 04:45 PM
Selenium	ND		0.37	mg/Kg-dry	1	3/20/2015 04:45 PM
Silver	ND		0.37	mg/Kg-dry	1	3/20/2015 04:45 PM
Zinc	42		0.75	mg/Kg-dry	1	3/20/2015 04:45 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 3/20/15	Analyst: JEC
Calcium	790		5.0	mg/L	10	3/23/2015 01:44 PM
Magnesium	84		2.0	mg/L	10	3/23/2015 01:44 PM
Sodium	2,000		2.0	mg/L	10	3/23/2015 01:44 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 3/20/15	Analyst: JEC
Sodium Adsorption Ratio	18		0.010	none	1	3/23/2015
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3541 / 3/19/15	Analyst: RM
Acenaphthene	ND		71	µg/Kg-dry	10	3/20/2015 03:42 AM
Acenaphthylene	ND		71	µg/Kg-dry	10	3/20/2015 03:42 AM
Anthracene	ND		71	µg/Kg-dry	10	3/20/2015 03:42 AM
Benzo(a)anthracene	ND		71	µg/Kg-dry	10	3/20/2015 03:42 AM
Benzo(a)pyrene	ND		71	µg/Kg-dry	10	3/20/2015 03:42 AM
Benzo(b)fluoranthene	ND		71	µg/Kg-dry	10	3/20/2015 03:42 AM
Benzo(g,h,i)perylene	ND		71	µg/Kg-dry	10	3/20/2015 03:42 AM
Benzo(k)fluoranthene	ND		71	µg/Kg-dry	10	3/20/2015 03:42 AM
Chrysene	ND		71	µg/Kg-dry	10	3/20/2015 03:42 AM

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

ALS Group USA, Corp

Date: 24-Mar-15

Client: HRL Compliance Solutions, Inc

Project: Grynberg Petroleum Company: Federal 1-32 Oil Spill

Work Order: 1503886

Sample ID: NW Wall

Lab ID: 1503886-01

Collection Date: 3/16/2015 09:45 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		71	µg/Kg-dry	10	3/20/2015 03:42 AM
Fluoranthene	82		71	µg/Kg-dry	10	3/20/2015 03:42 AM
Fluorene	150		71	µg/Kg-dry	10	3/20/2015 03:42 AM
Indeno(1,2,3-cd)pyrene	ND		71	µg/Kg-dry	10	3/20/2015 03:42 AM
Naphthalene	400		71	µg/Kg-dry	10	3/20/2015 03:42 AM
Pyrene	130		71	µg/Kg-dry	10	3/20/2015 03:42 AM
Surr: 2-Fluorobiphenyl	85.8		12-100	%REC	10	3/20/2015 03:42 AM
Surr: 4-Terphenyl-d14	92.6		25-137	%REC	10	3/20/2015 03:42 AM
Surr: Nitrobenzene-d5	89.6		37-107	%REC	10	3/20/2015 03:42 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 3/18/15	Analyst: LSY	
Benzene	ND		33	µg/Kg-dry	1	3/18/2015 11:38 PM
Ethylbenzene	37		33	µg/Kg-dry	1	3/18/2015 11:38 PM
m,p-Xylene	160		66	µg/Kg-dry	1	3/18/2015 11:38 PM
o-Xylene	ND		33	µg/Kg-dry	1	3/18/2015 11:38 PM
Toluene	ND		33	µg/Kg-dry	1	3/18/2015 11:38 PM
Xylenes, Total	160		99	µg/Kg-dry	1	3/18/2015 11:38 PM
Surr: 1,2-Dichloroethane-d4	123		70-130	%REC	1	3/18/2015 11:38 PM
Surr: 4-Bromofluorobenzene	110		70-130	%REC	1	3/18/2015 11:38 PM
Surr: Dibromofluoromethane	126		70-130	%REC	1	3/18/2015 11:38 PM
Surr: Toluene-d8	97.0		70-130	%REC	1	3/18/2015 11:38 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 3/20/15	Analyst: JB	
Electrical Conductivity @ Saturation	17		0.050	mmhos/cm @2	10	3/23/2015 12:00 PM
CHROMIUM, TRIVALENT			CALCULATION	Analyst: MB		
Chromium, Trivalent	5.5		0.55	mg/Kg-dry	1	3/23/2015 10:00 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 3/19/15	Analyst: MB	
Chromium, Hexavalent	ND		1.0	mg/Kg-dry	1	3/20/2015 04:00 PM
MOISTURE			E160.3M	Analyst: EVB		
Moisture	8.7		0.050	% of sample	1	3/19/2015 04:02 PM
PH			SW9045D	Prep: EXTRACT / 3/17/15	Analyst: JRF	
pH	8.1			s.u.	1	3/17/2015 04:00 PM

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

ALS Group USA, Corp

Date: 24-Mar-15

Client: HRL Compliance Solutions, Inc

Project: Grynberg Petroleum Company: Federal 1-32 Oil Spill

Work Order: 1503886

Sample ID: NE Wall

Lab ID: 1503886-02

Collection Date: 3/16/2015 09:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	4,900		22	mg/Kg-dry	5	3/18/2015 09:49 PM
Surr: 4-Terphenyl-d14	463	S	39-133	%REC	5	3/18/2015 09:49 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	17		2.7	mg/Kg-dry	1	3/17/2015 11:54 PM
Surr: Toluene-d8	116		50-150	%REC	1	3/17/2015 11:54 PM
MERCURY BY CVAA						
Mercury	ND		0.014	mg/Kg-dry	1	3/18/2015 03:21 PM
METALS ANALYSIS BY ICP						
Arsenic	4.2		0.40	mg/Kg-dry	1	3/20/2015 04:50 PM
Barium	58		0.40	mg/Kg-dry	1	3/20/2015 04:50 PM
Cadmium	ND		0.32	mg/Kg-dry	1	3/20/2015 04:50 PM
Chromium	4.5		0.40	mg/Kg-dry	1	3/20/2015 04:50 PM
Copper	5.9		0.40	mg/Kg-dry	1	3/20/2015 04:50 PM
Lead	6.5		0.40	mg/Kg-dry	1	3/20/2015 04:50 PM
Nickel	8.1		0.40	mg/Kg-dry	1	3/20/2015 04:50 PM
Selenium	ND		0.40	mg/Kg-dry	1	3/20/2015 04:50 PM
Silver	ND		0.40	mg/Kg-dry	1	3/20/2015 04:50 PM
Zinc	38		0.80	mg/Kg-dry	1	3/20/2015 04:50 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 3/20/15	Analyst: JEC
Calcium	640		5.0	mg/L	10	3/23/2015 01:55 PM
Magnesium	150		2.0	mg/L	10	3/23/2015 01:55 PM
Sodium	1,200		2.0	mg/L	10	3/23/2015 01:55 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 3/20/15	Analyst: JEC
Sodium Adsorption Ratio	11		0.010	none	1	3/23/2015
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3541 / 3/19/15	Analyst: RM
Acenaphthene	ND		71	µg/Kg-dry	10	3/20/2015 04:02 AM
Acenaphthylene	ND		71	µg/Kg-dry	10	3/20/2015 04:02 AM
Anthracene	ND		71	µg/Kg-dry	10	3/20/2015 04:02 AM
Benzo(a)anthracene	ND		71	µg/Kg-dry	10	3/20/2015 04:02 AM
Benzo(a)pyrene	ND		71	µg/Kg-dry	10	3/20/2015 04:02 AM
Benzo(b)fluoranthene	ND		71	µg/Kg-dry	10	3/20/2015 04:02 AM
Benzo(g,h,i)perylene	ND		71	µg/Kg-dry	10	3/20/2015 04:02 AM
Benzo(k)fluoranthene	ND		71	µg/Kg-dry	10	3/20/2015 04:02 AM
Chrysene	ND		71	µg/Kg-dry	10	3/20/2015 04:02 AM

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

ALS Group USA, Corp

Date: 24-Mar-15

Client: HRL Compliance Solutions, Inc
Project: Grynberg Petroleum Company: Federal 1-32 Oil Spill
Sample ID: NE Wall
Collection Date: 3/16/2015 09:50 AM
Work Order: 1503886
Lab ID: 1503886-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		71	µg/Kg-dry	10	3/20/2015 04:02 AM
Fluoranthene	ND		71	µg/Kg-dry	10	3/20/2015 04:02 AM
Fluorene	ND		71	µg/Kg-dry	10	3/20/2015 04:02 AM
Indeno(1,2,3-cd)pyrene	ND		71	µg/Kg-dry	10	3/20/2015 04:02 AM
Naphthalene	ND		71	µg/Kg-dry	10	3/20/2015 04:02 AM
Pyrene	ND		71	µg/Kg-dry	10	3/20/2015 04:02 AM
Surr: 2-Fluorobiphenyl	80.4		12-100	%REC	10	3/20/2015 04:02 AM
Surr: 4-Terphenyl-d14	91.6		25-137	%REC	10	3/20/2015 04:02 AM
Surr: Nitrobenzene-d5	82.8		37-107	%REC	10	3/20/2015 04:02 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 3/18/15		Analyst: LSY
Benzene	42		32	µg/Kg-dry	1	3/20/2015 08:37 AM
Ethylbenzene	ND		32	µg/Kg-dry	1	3/20/2015 08:37 AM
m,p-Xylene	140		64	µg/Kg-dry	1	3/20/2015 08:37 AM
o-Xylene	ND		32	µg/Kg-dry	1	3/20/2015 08:37 AM
Toluene	ND		32	µg/Kg-dry	1	3/20/2015 08:37 AM
Xylenes, Total	140		97	µg/Kg-dry	1	3/20/2015 08:37 AM
Surr: 1,2-Dichloroethane-d4	117		70-130	%REC	1	3/20/2015 08:37 AM
Surr: 4-Bromofluorobenzene	106		70-130	%REC	1	3/20/2015 08:37 AM
Surr: Dibromofluoromethane	112		70-130	%REC	1	3/20/2015 08:37 AM
Surr: Toluene-d8	100		70-130	%REC	1	3/20/2015 08:37 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 3/20/15		Analyst: JB
Electrical Conductivity @ Saturation	12		0.050	mmhos/cm @2	10	3/23/2015 12:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	4.5		0.54	mg/Kg-dry	1	3/23/2015 10:00 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 3/19/15		Analyst: MB
Chromium, Hexavalent	ND		1.0	mg/Kg-dry	1	3/20/2015 04:00 PM
MOISTURE			E160.3M			Analyst: EVB
Moisture	7.0		0.050	% of sample	1	3/19/2015 04:02 PM
PH			SW9045D	Prep: EXTRACT / 3/17/15		Analyst: JRF
pH	8.4			s.u.	1	3/17/2015 04:00 PM

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

ALS Group USA, Corp

Date: 24-Mar-15

Client: HRL Compliance Solutions, Inc

Project: Grynberg Petroleum Company: Federal 1-32 Oil Spill

Work Order: 1503886

Sample ID: SW Wall

Lab ID: 1503886-03

Collection Date: 3/16/2015 09:55 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3541 / 3/18/15	Analyst: IT
DRO (C10-C28)	1,600		23	mg/Kg-dry	5	3/18/2015 10:49 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>69.8</i>		<i>39-133</i>	<i>%REC</i>	<i>5</i>	3/18/2015 10:49 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep: SW5035 / 3/17/15	Analyst: IT
GRO (C6-C10)	180		2.8	mg/Kg-dry	1	3/18/2015 12:19 PM
<i>Surr: Toluene-d8</i>	<i>110</i>		<i>50-150</i>	<i>%REC</i>	<i>1</i>	3/18/2015 12:19 PM
MERCURY BY CVAA						
			SW7471B		Prep: SW7471 / 3/19/15	Analyst: LR
Mercury	0.025		0.014	mg/Kg-dry	1	3/19/2015 07:20 PM
METALS ANALYSIS BY ICP						
			SW846 6010C		Prep: SW3050B / 3/19/15	Analyst: JEC
Arsenic	8.6		0.41	mg/Kg-dry	1	3/20/2015 05:18 PM
Barium	52		0.41	mg/Kg-dry	1	3/20/2015 05:18 PM
Cadmium	ND		0.33	mg/Kg-dry	1	3/20/2015 05:18 PM
Chromium	6.7		0.41	mg/Kg-dry	1	3/20/2015 05:18 PM
Copper	12		0.41	mg/Kg-dry	1	3/20/2015 05:18 PM
Lead	12		0.41	mg/Kg-dry	1	3/20/2015 05:18 PM
Nickel	15		0.41	mg/Kg-dry	1	3/20/2015 05:18 PM
Selenium	0.56		0.41	mg/Kg-dry	1	3/23/2015 12:40 PM
Silver	ND		0.41	mg/Kg-dry	1	3/20/2015 05:18 PM
Zinc	62		0.82	mg/Kg-dry	1	3/20/2015 05:18 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 3/20/15	Analyst: JEC
Calcium	820		5.0	mg/L	10	3/23/2015 02:01 PM
Magnesium	72		2.0	mg/L	10	3/23/2015 02:01 PM
Sodium	2,500		2.0	mg/L	10	3/23/2015 02:01 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 3/20/15	Analyst: JEC
Sodium Adsorption Ratio	22		0.010	none	1	3/23/2015
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3541 / 3/19/15	Analyst: RM
Acenaphthene	ND		72	µg/Kg-dry	10	3/20/2015 04:22 AM
Acenaphthylene	ND		72	µg/Kg-dry	10	3/20/2015 04:22 AM
Anthracene	380		72	µg/Kg-dry	10	3/20/2015 04:22 AM
Benzo(a)anthracene	ND		72	µg/Kg-dry	10	3/20/2015 04:22 AM
Benzo(a)pyrene	ND		72	µg/Kg-dry	10	3/20/2015 04:22 AM
Benzo(b)fluoranthene	ND		72	µg/Kg-dry	10	3/20/2015 04:22 AM
Benzo(g,h,i)perylene	ND		72	µg/Kg-dry	10	3/20/2015 04:22 AM
Benzo(k)fluoranthene	ND		72	µg/Kg-dry	10	3/20/2015 04:22 AM
Chrysene	ND		72	µg/Kg-dry	10	3/20/2015 04:22 AM

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

ALS Group USA, Corp

Date: 24-Mar-15

Client: HRL Compliance Solutions, Inc

Project: Grynberg Petroleum Company: Federal 1-32 Oil Spill

Work Order: 1503886

Sample ID: SW Wall

Lab ID: 1503886-03

Collection Date: 3/16/2015 09:55 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		72	µg/Kg-dry	10	3/20/2015 04:22 AM
Fluoranthene	ND		72	µg/Kg-dry	10	3/20/2015 04:22 AM
Fluorene	970		72	µg/Kg-dry	10	3/20/2015 04:22 AM
Indeno(1,2,3-cd)pyrene	ND		72	µg/Kg-dry	10	3/20/2015 04:22 AM
Naphthalene	1,400		72	µg/Kg-dry	10	3/20/2015 04:22 AM
Pyrene	ND		72	µg/Kg-dry	10	3/20/2015 04:22 AM
Surr: 2-Fluorobiphenyl	85.0		12-100	%REC	10	3/20/2015 04:22 AM
Surr: 4-Terphenyl-d14	88.0		25-137	%REC	10	3/20/2015 04:22 AM
Surr: Nitrobenzene-d5	92.8		37-107	%REC	10	3/20/2015 04:22 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 3/18/15		Analyst: LSY
Benzene	34		33	µg/Kg-dry	1	3/19/2015 12:28 PM
Ethylbenzene	400		33	µg/Kg-dry	1	3/19/2015 12:28 PM
m,p-Xylene	900		66	µg/Kg-dry	1	3/19/2015 12:28 PM
o-Xylene	ND		33	µg/Kg-dry	1	3/19/2015 12:28 PM
Toluene	ND		33	µg/Kg-dry	1	3/19/2015 12:28 PM
Xylenes, Total	920		100	µg/Kg-dry	1	3/19/2015 12:28 PM
Surr: 1,2-Dichloroethane-d4	114		70-130	%REC	1	3/19/2015 12:28 PM
Surr: 4-Bromofluorobenzene	117		70-130	%REC	1	3/19/2015 12:28 PM
Surr: Dibromofluoromethane	115		70-130	%REC	1	3/19/2015 12:28 PM
Surr: Toluene-d8	103		70-130	%REC	1	3/19/2015 12:28 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 3/20/15		Analyst: JB
Electrical Conductivity @ Saturation	20		0.050	mmhos/cm @2	10	3/23/2015 12:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	6.7		0.55	mg/Kg-dry	1	3/23/2015 10:00 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 3/19/15		Analyst: MB
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	3/20/2015 04:00 PM
MOISTURE			E160.3M			Analyst: EVB
Moisture	9.7		0.050	% of sample	1	3/19/2015 04:02 PM
PH			SW9045D	Prep: EXTRACT / 3/17/15		Analyst: JRF
pH	7.9			s.u.	1	3/17/2015 04:00 PM

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

ALS Group USA, Corp

Date: 24-Mar-15

Client: HRL Compliance Solutions, Inc

Project: Grynberg Petroleum Company: Federal 1-32 Oil Spill

Work Order: 1503886

Sample ID: SE Wall

Lab ID: 1503886-04

Collection Date: 3/16/2015 10:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	7,300		SW8015M		Prep: SW3541 / 3/18/15	Analyst: IT
			22	mg/Kg-dry	5	3/18/2015 11:19 PM
Surr: 4-Terphenyl-d14	1,450	S	39-133	%REC	5	3/18/2015 11:19 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	59		SW8015D		Prep: SW5035 / 3/17/15	Analyst: IT
			5.5	mg/Kg-dry	2	3/18/2015 12:47 PM
Surr: Toluene-d8	126		50-150	%REC	2	3/18/2015 12:47 PM
MERCURY BY CVAA						
Mercury	ND		SW7471B		Prep: SW7471 / 3/19/15	Analyst: LR
			0.014	mg/Kg-dry	1	3/19/2015 07:22 PM
METALS ANALYSIS BY ICP						
Arsenic	5.5		SW846 6010C		Prep: SW3050B / 3/19/15	Analyst: JEC
			0.38	mg/Kg-dry	1	3/20/2015 12:51 PM
Barium	93		0.38	mg/Kg-dry	1	3/20/2015 12:51 PM
Cadmium	ND		0.30	mg/Kg-dry	1	3/20/2015 12:51 PM
Chromium	6.6		0.38	mg/Kg-dry	1	3/20/2015 12:51 PM
Copper	7.6		0.38	mg/Kg-dry	1	3/20/2015 12:51 PM
Lead	9.3		0.38	mg/Kg-dry	1	3/20/2015 12:51 PM
Nickel	9.6		0.38	mg/Kg-dry	1	3/20/2015 12:51 PM
Selenium	ND		0.38	mg/Kg-dry	1	3/20/2015 12:51 PM
Silver	ND		0.38	mg/Kg-dry	1	3/20/2015 12:51 PM
Zinc	44		0.76	mg/Kg-dry	1	3/20/2015 12:51 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 3/20/15	Analyst: JEC
Calcium	710		5.0	mg/L	10	3/23/2015 02:07 PM
Magnesium	160		2.0	mg/L	10	3/23/2015 02:07 PM
Sodium	1,700		2.0	mg/L	10	3/23/2015 02:07 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 3/20/15	Analyst: JEC
Sodium Adsorption Ratio	15		0.010	none	1	3/23/2015
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3541 / 3/19/15	Analyst: RM
Acenaphthene	ND		71	µg/Kg-dry	10	3/20/2015 04:42 AM
Acenaphthylene	ND		71	µg/Kg-dry	10	3/20/2015 04:42 AM
Anthracene	1,200		71	µg/Kg-dry	10	3/20/2015 04:42 AM
Benzo(a)anthracene	790		71	µg/Kg-dry	10	3/20/2015 04:42 AM
Benzo(a)pyrene	ND		71	µg/Kg-dry	10	3/20/2015 04:42 AM
Benzo(b)fluoranthene	ND		71	µg/Kg-dry	10	3/20/2015 04:42 AM
Benzo(g,h,i)perylene	ND		71	µg/Kg-dry	10	3/20/2015 04:42 AM
Benzo(k)fluoranthene	ND		71	µg/Kg-dry	10	3/20/2015 04:42 AM
Chrysene	480		71	µg/Kg-dry	10	3/20/2015 04:42 AM

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

ALS Group USA, Corp

Date: 24-Mar-15

Client: HRL Compliance Solutions, Inc

Project: Grynberg Petroleum Company: Federal 1-32 Oil Spill

Work Order: 1503886

Sample ID: SE Wall

Lab ID: 1503886-04

Collection Date: 3/16/2015 10:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		71	µg/Kg-dry	10	3/20/2015 04:42 AM
Fluoranthene	390		71	µg/Kg-dry	10	3/20/2015 04:42 AM
Fluorene	ND		71	µg/Kg-dry	10	3/20/2015 04:42 AM
Indeno(1,2,3-cd)pyrene	ND		71	µg/Kg-dry	10	3/20/2015 04:42 AM
Naphthalene	ND		71	µg/Kg-dry	10	3/20/2015 04:42 AM
Pyrene	620		71	µg/Kg-dry	10	3/20/2015 04:42 AM
Surr: 2-Fluorobiphenyl	77.2		12-100	%REC	10	3/20/2015 04:42 AM
Surr: 4-Terphenyl-d14	74.6		25-137	%REC	10	3/20/2015 04:42 AM
Surr: Nitrobenzene-d5	95.8		37-107	%REC	10	3/20/2015 04:42 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 3/18/15	Analyst: LSY	
Benzene	ND		33	µg/Kg-dry	1	3/19/2015 02:10 AM
Ethylbenzene	ND		33	µg/Kg-dry	1	3/19/2015 02:10 AM
m,p-Xylene	150		65	µg/Kg-dry	1	3/19/2015 02:10 AM
o-Xylene	ND		33	µg/Kg-dry	1	3/19/2015 02:10 AM
Toluene	ND		33	µg/Kg-dry	1	3/19/2015 02:10 AM
Xylenes, Total	150		98	µg/Kg-dry	1	3/19/2015 02:10 AM
Surr: 1,2-Dichloroethane-d4	118		70-130	%REC	1	3/19/2015 02:10 AM
Surr: 4-Bromofluorobenzene	113		70-130	%REC	1	3/19/2015 02:10 AM
Surr: Dibromofluoromethane	120		70-130	%REC	1	3/19/2015 02:10 AM
Surr: Toluene-d8	98.5		70-130	%REC	1	3/19/2015 02:10 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 3/20/15	Analyst: JB	
Electrical Conductivity @ Saturation	16		0.050	mmhos/cm @2	10	3/23/2015 12:00 PM
CHROMIUM, TRIVALENT			CALCULATION	Analyst: MB		
Chromium, Trivalent	6.6		0.55	mg/Kg-dry	1	3/23/2015 10:00 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 3/19/15	Analyst: MB	
Chromium, Hexavalent	ND		1.0	mg/Kg-dry	1	3/20/2015 04:00 PM
MOISTURE			E160.3M	Analyst: EVB		
Moisture	8.4		0.050	% of sample	1	3/19/2015 04:02 PM
PH			SW9045D	Prep: EXTRACT / 3/17/15	Analyst: JRF	
pH	8.0		s.u.		1	3/17/2015 04:00 PM

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

ALS Group USA, Corp

Date: 24-Mar-15

Client: HRL Compliance Solutions, Inc

Project: Grynberg Petroleum Company: Federal 1-32 Oil Spill

Work Order: 1503886

Sample ID: EXC. Bottom

Lab ID: 1503886-05

Collection Date: 3/16/2015 10:15 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	10		SW8015M		Prep: SW3541 / 3/18/15	Analyst: IT
<i>Surr: 4-Terphenyl-d14</i>	<i>65.0</i>		<i>4.4</i>	<i>mg/Kg-dry</i>	<i>1</i>	3/18/2015 11:49 PM
			<i>39-133</i>	<i>%REC</i>	<i>1</i>	3/18/2015 11:49 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015D		Prep: SW5035 / 3/17/15	Analyst: IT
<i>Surr: Toluene-d8</i>	<i>113</i>		<i>2.7</i>	<i>mg/Kg-dry</i>	<i>1</i>	3/17/2015 11:05 PM
			<i>50-150</i>	<i>%REC</i>	<i>1</i>	3/17/2015 11:05 PM
MERCURY BY CVAA						
Mercury	0.040		SW7471B		Prep: SW7471 / 3/19/15	Analyst: LR
			0.013	mg/Kg-dry	1	3/19/2015 07:24 PM
METALS ANALYSIS BY ICP						
Arsenic	9.1		SW846 6010C		Prep: SW3050B / 3/19/15	Analyst: JEC
Barium	75		0.37	mg/Kg-dry	1	3/20/2015 05:23 PM
Cadmium	ND		0.37	mg/Kg-dry	1	3/20/2015 05:23 PM
Chromium	7.1		0.30	mg/Kg-dry	1	3/20/2015 05:23 PM
Copper	12		0.37	mg/Kg-dry	1	3/20/2015 05:23 PM
Lead	14		0.37	mg/Kg-dry	1	3/20/2015 05:23 PM
Nickel	13		0.37	mg/Kg-dry	1	3/20/2015 05:23 PM
Selenium	ND		0.37	mg/Kg-dry	1	3/20/2015 05:23 PM
Silver	ND		0.37	mg/Kg-dry	1	3/20/2015 05:23 PM
Zinc	62		0.74	mg/Kg-dry	1	3/20/2015 05:23 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 3/20/15	Analyst: JEC
Calcium	680		5.0	mg/L	10	3/23/2015 02:13 PM
Magnesium	27		2.0	mg/L	10	3/23/2015 02:13 PM
Sodium	1,700		2.0	mg/L	10	3/23/2015 02:13 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 3/20/15	Analyst: JEC
Sodium Adsorption Ratio	17		0.010	none	1	3/23/2015
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3541 / 3/19/15	Analyst: RM
Acenaphthene	ND		7.1	µg/Kg-dry	1	3/20/2015 05:03 AM
Acenaphthylene	ND		7.1	µg/Kg-dry	1	3/20/2015 05:03 AM
Anthracene	ND		7.1	µg/Kg-dry	1	3/20/2015 05:03 AM
Benzo(a)anthracene	ND		7.1	µg/Kg-dry	1	3/20/2015 05:03 AM
Benzo(a)pyrene	ND		7.1	µg/Kg-dry	1	3/20/2015 05:03 AM
Benzo(b)fluoranthene	ND		7.1	µg/Kg-dry	1	3/20/2015 05:03 AM
Benzo(g,h,i)perylene	ND		7.1	µg/Kg-dry	1	3/20/2015 05:03 AM
Benzo(k)fluoranthene	ND		7.1	µg/Kg-dry	1	3/20/2015 05:03 AM
Chrysene	ND		7.1	µg/Kg-dry	1	3/20/2015 05:03 AM

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

ALS Group USA, Corp

Date: 24-Mar-15

Client: HRL Compliance Solutions, Inc

Project: Grynberg Petroleum Company: Federal 1-32 Oil Spill

Work Order: 1503886

Sample ID: EXC. Bottom

Lab ID: 1503886-05

Collection Date: 3/16/2015 10:15 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.1	µg/Kg-dry	1	3/20/2015 05:03 AM
Fluoranthene	ND		7.1	µg/Kg-dry	1	3/20/2015 05:03 AM
Fluorene	ND		7.1	µg/Kg-dry	1	3/20/2015 05:03 AM
Indeno(1,2,3-cd)pyrene	ND		7.1	µg/Kg-dry	1	3/20/2015 05:03 AM
Naphthalene	21		7.1	µg/Kg-dry	1	3/20/2015 05:03 AM
Pyrene	ND		7.1	µg/Kg-dry	1	3/20/2015 05:03 AM
Surr: 2-Fluorobiphenyl	73.6		12-100	%REC	1	3/20/2015 05:03 AM
Surr: 4-Terphenyl-d14	95.2		25-137	%REC	1	3/20/2015 05:03 AM
Surr: Nitrobenzene-d5	80.9		37-107	%REC	1	3/20/2015 05:03 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 3/18/15		Analyst: AK
Benzene	ND		32	µg/Kg-dry	1	3/18/2015 05:08 PM
Ethylbenzene	ND		32	µg/Kg-dry	1	3/18/2015 05:08 PM
m,p-Xylene	ND		65	µg/Kg-dry	1	3/18/2015 05:08 PM
o-Xylene	ND		32	µg/Kg-dry	1	3/18/2015 05:08 PM
Toluene	ND		32	µg/Kg-dry	1	3/18/2015 05:08 PM
Xylenes, Total	ND		97	µg/Kg-dry	1	3/18/2015 05:08 PM
Surr: 1,2-Dichloroethane-d4	96.6		70-130	%REC	1	3/18/2015 05:08 PM
Surr: 4-Bromofluorobenzene	98.8		70-130	%REC	1	3/18/2015 05:08 PM
Surr: Dibromofluoromethane	95.2		70-130	%REC	1	3/18/2015 05:08 PM
Surr: Toluene-d8	95.0		70-130	%REC	1	3/18/2015 05:08 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 3/20/15		Analyst: JB
Electrical Conductivity @ Saturation	14		0.050	mmhos/cm @2	10	3/23/2015 12:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	7.1		0.54	mg/Kg-dry	1	3/23/2015 10:00 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 3/19/15		Analyst: MB
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	3/20/2015 04:00 PM
MOISTURE			E160.3M			Analyst: EVB
Moisture	7.5		0.050	% of sample	1	3/19/2015 04:02 PM
PH			SW9045D	Prep: EXTRACT / 3/17/15		Analyst: JRF
pH	7.9			s.u.	1	3/17/2015 04:00 PM

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

ALS Group USA, Corp

Date: 24-Mar-15

Client: HRL Compliance Solutions, Inc

Project: Grynberg Petroleum Company: Federal 1-32 Oil Spill

Work Order: 1503886

Sample ID: Stockpile 1

Lab ID: 1503886-06

Collection Date: 3/16/2015 10:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	13,000		SW8015M		Prep: SW3541 / 3/18/15	Analyst: IT
<i>Surr: 4-Terphenyl-d14</i>	392	S	49	mg/Kg-dry	10	3/18/2015 08:20 PM
			39-133	%REC	10	3/18/2015 08:20 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	1,200		SW8015D		Prep: SW5035 / 3/17/15	Analyst: IT
<i>Surr: Toluene-d8</i>	168	S	6.0	mg/Kg-dry	2	3/18/2015 01:14 AM
			50-150	%REC	2	3/18/2015 01:14 AM
SEMI-VOLATILE ORGANIC COMPOUNDS						
SW846 8270D					Prep: SW3541 / 3/19/15	Analyst: RM
Acenaphthene	ND		310	µg/Kg-dry	10	3/20/2015 05:23 AM
Acenaphthylene	ND		310	µg/Kg-dry	10	3/20/2015 05:23 AM
Anthracene	1,900		310	µg/Kg-dry	10	3/20/2015 05:23 AM
Benzo(a)anthracene	ND		310	µg/Kg-dry	10	3/20/2015 05:23 AM
Benzo(a)pyrene	ND		310	µg/Kg-dry	10	3/20/2015 05:23 AM
Benzo(b)fluoranthene	ND		310	µg/Kg-dry	10	3/20/2015 05:23 AM
Benzo(g,h,i)perylene	ND		310	µg/Kg-dry	10	3/20/2015 05:23 AM
Benzo(k)fluoranthene	ND		310	µg/Kg-dry	10	3/20/2015 05:23 AM
Chrysene	1,400		310	µg/Kg-dry	10	3/20/2015 05:23 AM
Dibenzo(a,h)anthracene	ND		310	µg/Kg-dry	10	3/20/2015 05:23 AM
Fluoranthene	ND		310	µg/Kg-dry	10	3/20/2015 05:23 AM
Fluorene	5,400		310	µg/Kg-dry	10	3/20/2015 05:23 AM
Indeno(1,2,3-cd)pyrene	ND		310	µg/Kg-dry	10	3/20/2015 05:23 AM
Naphthalene	13,000		310	µg/Kg-dry	10	3/20/2015 05:23 AM
Pyrene	ND		310	µg/Kg-dry	10	3/20/2015 05:23 AM
<i>Surr: 2-Fluorobiphenyl</i>	96.8		12-100	%REC	10	3/20/2015 05:23 AM
<i>Surr: 4-Terphenyl-d14</i>	95.2		25-137	%REC	10	3/20/2015 05:23 AM
<i>Surr: Nitrobenzene-d5</i>	102		37-107	%REC	10	3/20/2015 05:23 AM
VOLATILE ORGANIC COMPOUNDS						
SW8260B					Prep: SW5035 / 3/18/15	Analyst: LSY
Benzene	9,700		180	µg/Kg-dry	5	3/19/2015 05:21 PM
Ethylbenzene	15,000		180	µg/Kg-dry	5	3/19/2015 05:21 PM
m,p-Xylene	24,000		360	µg/Kg-dry	5	3/19/2015 05:21 PM
o-Xylene	1,300		36	µg/Kg-dry	1	3/19/2015 02:36 AM
Toluene	ND		36	µg/Kg-dry	1	3/19/2015 02:36 AM
Xylenes, Total	25,000		540	µg/Kg-dry	5	3/19/2015 05:21 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	101		70-130	%REC	5	3/19/2015 05:21 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	103		70-130	%REC	1	3/19/2015 02:36 AM
<i>Surr: 4-Bromofluorobenzene</i>	103		70-130	%REC	1	3/19/2015 02:36 AM
<i>Surr: 4-Bromofluorobenzene</i>	99.6		70-130	%REC	5	3/19/2015 05:21 PM
<i>Surr: Dibromofluoromethane</i>	101		70-130	%REC	1	3/19/2015 02:36 AM
<i>Surr: Dibromofluoromethane</i>	89.8		70-130	%REC	5	3/19/2015 05:21 PM

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

ALS Group USA, Corp

Date: 24-Mar-15

Client: HRL Compliance Solutions, Inc

Project: Grynberg Petroleum Company: Federal 1-32 Oil Spill

Work Order: 1503886

Sample ID: Stockpile 1

Lab ID: 1503886-06

Collection Date: 3/16/2015 10:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	124		70-130	%REC	5	3/19/2015 05:21 PM
Surr: Toluene-d8	136	S	70-130	%REC	1	3/19/2015 02:36 AM
MOISTURE			E160.3M			Analyst: EVB
Moisture	17		0.050	% of sample	1	3/19/2015 04:02 PM

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

ALS Group USA, Corp

Date: 24-Mar-15

Client: HRL Compliance Solutions, Inc

Project: Grynberg Petroleum Company: Federal 1-32 Oil Spill

Work Order: 1503886

Sample ID: Stockpile 2

Lab ID: 1503886-07

Collection Date: 3/16/2015 10:35 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	24,000		SW8015M		Prep: SW3541 / 3/18/15	Analyst: IT
<i>Surr: 4-Terphenyl-d14</i>	602	S	190	mg/Kg-dry	10	3/18/2015 08:50 PM
			39-133	%REC	10	3/18/2015 08:50 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	1,800		SW8015D		Prep: SW5035 / 3/17/15	Analyst: IT
<i>Surr: Toluene-d8</i>	146		29	mg/Kg-dry	10	3/19/2015 09:23 AM
			50-150	%REC	10	3/19/2015 09:23 AM
SEMI-VOLATILE ORGANIC COMPOUNDS						
SW846 8270D					Prep: SW3541 / 3/19/15	Analyst: RM
Acenaphthene	ND		77	µg/Kg-dry	10	3/20/2015 05:43 AM
Acenaphthylene	ND		77	µg/Kg-dry	10	3/20/2015 05:43 AM
Anthracene	2,600		77	µg/Kg-dry	10	3/20/2015 05:43 AM
Benzo(a)anthracene	890		77	µg/Kg-dry	10	3/20/2015 05:43 AM
Benzo(a)pyrene	ND		77	µg/Kg-dry	10	3/20/2015 05:43 AM
Benzo(b)fluoranthene	ND		77	µg/Kg-dry	10	3/20/2015 05:43 AM
Benzo(g,h,i)perylene	ND		77	µg/Kg-dry	10	3/20/2015 05:43 AM
Benzo(k)fluoranthene	ND		77	µg/Kg-dry	10	3/20/2015 05:43 AM
Chrysene	690		77	µg/Kg-dry	10	3/20/2015 05:43 AM
Dibenzo(a,h)anthracene	ND		77	µg/Kg-dry	10	3/20/2015 05:43 AM
Fluoranthene	ND		77	µg/Kg-dry	10	3/20/2015 05:43 AM
Fluorene	7,200		77	µg/Kg-dry	10	3/20/2015 05:43 AM
Indeno(1,2,3-cd)pyrene	ND		77	µg/Kg-dry	10	3/20/2015 05:43 AM
Naphthalene	20,000		77	µg/Kg-dry	10	3/20/2015 05:43 AM
Pyrene	950		77	µg/Kg-dry	10	3/20/2015 05:43 AM
<i>Surr: 2-Fluorobiphenyl</i>	76.2		12-100	%REC	10	3/20/2015 05:43 AM
<i>Surr: 4-Terphenyl-d14</i>	82.8		25-137	%REC	10	3/20/2015 05:43 AM
<i>Surr: Nitrobenzene-d5</i>	255	S	37-107	%REC	10	3/20/2015 05:43 AM
VOLATILE ORGANIC COMPOUNDS						
SW8260B					Prep: SW5035 / 3/18/15	Analyst: AK
Benzene	7,000		350	µg/Kg-dry	10	3/20/2015 10:35 AM
Ethylbenzene	15,000		350	µg/Kg-dry	10	3/20/2015 10:35 AM
m,p-Xylene	34,000		700	µg/Kg-dry	10	3/20/2015 10:35 AM
o-Xylene	19,000		350	µg/Kg-dry	10	3/20/2015 10:35 AM
Toluene	ND		350	µg/Kg-dry	10	3/20/2015 10:35 AM
Xylenes, Total	53,000		1,100	µg/Kg-dry	10	3/20/2015 10:35 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	95.1		70-130	%REC	10	3/20/2015 10:35 AM
<i>Surr: 4-Bromofluorobenzene</i>	98.8		70-130	%REC	10	3/20/2015 10:35 AM
<i>Surr: Dibromofluoromethane</i>	94.2		70-130	%REC	10	3/20/2015 10:35 AM
<i>Surr: Toluene-d8</i>	114		70-130	%REC	10	3/20/2015 10:35 AM
MOISTURE						
E160.3M						Analyst: EVB
Moisture	15		0.050	% of sample	1	3/19/2015 04:02 PM

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

Client: HRL Compliance Solutions, Inc

Work Order: 1503886

Project: Grynberg Petroleum Company: Federal 1-32 Oil Spi

QC BATCH REPORT

Batch ID: 68746

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKS1-68746-68746				Units: mg/Kg		Analysis Date: 3/18/2015 05:21 PM		
Client ID:		Run ID: GC8_150318A				SeqNo: 3185940		Prep Date: 3/18/2015		DF: 1
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>	1.496	0	2	0	74.8	39-133	0			

LCS		Sample ID: DLCSS1-68746-68746				Units: mg/Kg		Analysis Date: 3/18/2015 05:50 PM		
Client ID:		Run ID: GC8_150318A				SeqNo: 3185941		Prep Date: 3/18/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	170.7	5.0	200	0	85.3	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	1.45	0	2	0	72.5	39-133	0			

MS		Sample ID: 1503873-01B MS				Units: mg/Kg		Analysis Date: 3/18/2015 06:20 PM		
Client ID:		Run ID: GC8_150318A				SeqNo: 3185942		Prep Date: 3/18/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	324.6	8.0	319.2	95.13	71.9	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	2.048	0	3.192	0	64.2	39-133	0			

MSD		Sample ID: 1503873-01B MSD				Units: mg/Kg		Analysis Date: 3/18/2015 06:50 PM		
Client ID:		Run ID: GC8_150318A				SeqNo: 3185943		Prep Date: 3/18/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	405.8	8.3	332.3	95.13	93.5	48-110	324.6	22.2	30	
<i>Surr: 4-Terphenyl-d14</i>	2.505	0	3.323	0	75.4	39-133	2.048	20.1	30	

The following samples were analyzed in this batch:

1503886-01B	1503886-02B	1503886-03B
1503886-04B	1503886-05B	1503886-06A
1503886-07A		

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

Client: HRL Compliance Solutions, Inc
Work Order: 1503886
Project: Grynberg Petroleum Company: Federal 1-32 Oil Spi

QC BATCH REPORT

Batch ID: **68714** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-68714-68714				Units: µg/Kg		Analysis Date: 3/17/2015 05:17 PM		
Client ID:		Run ID: GC9_150317A				SeqNo: 3182913		Prep Date: 3/17/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	ND	2,500								
Surr: Toluene-d8	4896	0	5000	0	97.9	50-150	0			

LCS		Sample ID: LCS-68714-68714				Units: µg/Kg		Analysis Date: 3/17/2015 04:54 PM		
Client ID:		Run ID: GC9_150317A				SeqNo: 3182912		Prep Date: 3/17/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	493800	2,500	500000	0	98.8	70-130	0			
Surr: Toluene-d8	4812	0	5000	0	96.2	50-150	0			

MS		Sample ID: 1503878-01B MS				Units: µg/Kg		Analysis Date: 3/17/2015 08:11 PM		
Client ID:		Run ID: GC9_150317A				SeqNo: 3182920		Prep Date: 3/17/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	457400	2,500	500000	0	91.5	70-130	0			
Surr: Toluene-d8	4528	0	5000	0	90.6	50-150	0			

MSD		Sample ID: 1503878-01B MSD				Units: µg/Kg		Analysis Date: 3/17/2015 08:36 PM		
Client ID:		Run ID: GC9_150317A				SeqNo: 3182921		Prep Date: 3/17/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	444400	2,500	500000	0	88.9	70-130	457400	2.88	30	
Surr: Toluene-d8	4934	0	5000	0	98.7	50-150	4528	8.57	30	

The following samples were analyzed in this batch:

1503886-01A	1503886-02A	1503886-03A
1503886-04A	1503886-05A	1503886-06A
1503886-07A		

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

Client: HRL Compliance Solutions, Inc
Work Order: 1503886
Project: Grynberg Petroleum Company: Federal 1-32 Oil Spi

QC BATCH REPORT

Batch ID: **68754** Instrument ID **HG1** Method: **SW7471B**

MBLK		Sample ID: MBLK-68754-68754				Units: mg/Kg		Analysis Date: 3/18/2015 02:17 PM		
Client ID:		Run ID: HG1_150318A				SeqNo: 3184183		Prep Date: 3/18/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.020

LCS		Sample ID: LCS-68754-68754				Units: mg/Kg		Analysis Date: 3/18/2015 02:19 PM		
Client ID:		Run ID: HG1_150318A				SeqNo: 3184185		Prep Date: 3/18/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1758 0.020 0.1665 0 106 80-120 0

MS		Sample ID: 1503768-02CMS					Units: mg/Kg		Analysis Date: 3/18/2015 02:26 PM		
Client ID:			Run ID: HG1_150318A			SeqNo: 3184191		Prep Date: 3/18/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1295 0.012 0.1038 0.0193 106 75-125 0

MSD		Sample ID: 1503768-02CMSD				Units: mg/Kg		Analysis Date: 3/18/2015 02:28 PM		
Client ID:		Run ID: HG1_150318A			SeqNo: 3184192		Prep Date: 3/18/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.132 0.013 0.1052 0.0193 107 75-125 0.1295 1.94 35

The following samples were analyzed in this batch:

1503886-01B 1503886-02B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1503886
Project: Grynberg Petroleum Company: Federal 1-32 Oil Spi

QC BATCH REPORT

Batch ID: **68825** Instrument ID **HG1** Method: **SW7471B**

MBLK		Sample ID: MBLK-68825-68825				Units: mg/Kg		Analysis Date: 3/19/2015 06:47 PM		
Client ID:		Run ID: HG1_150319A				SeqNo: 3186268		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.020

LCS		Sample ID: LCS-68825-68825				Units: mg/Kg		Analysis Date: 3/19/2015 06:49 PM		
Client ID:		Run ID: HG1_150319A				SeqNo: 3186269		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1788 0.020 0.1665 0 107 80-120 0

MS		Sample ID: 15031021-02AMS					Units: mg/Kg		Analysis Date: 3/19/2015 06:56 PM		
Client ID:			Run ID: HG1_150319A			SeqNo: 3186272		Prep Date: 3/19/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1384 0.014 0.1129 0.018 107 75-125 0

MSD				Sample ID: 15031021-02AMSD				Units: mg/Kg			Analysis Date: 3/19/2015 06:59 PM			
Client ID:				Run ID: HG1_150319A				SeqNo: 3186273			Prep Date: 3/19/2015		DF: 1	
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1384 0.014 0.1156 0.018 104 75-125 0.1384 0.0361 35

The following samples were analyzed in this batch:

1503886-03B	1503886-04B	1503886-05B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1503886
Project: Grynberg Petroleum Company: Federal 1-32 Oil Spi

QC BATCH REPORT

Batch ID: **68774** Instrument ID **ICP2** Method: **SW846 6010C**

DUP		Sample ID: 1503886-01CDUP				Units: mg/L		Analysis Date: 3/23/2015 02:30 PM		
Client ID: NW Wall		Run ID: ICP2_150323A				SeqNo: 3190251		Prep Date: 3/20/2015		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	781.8	5.0	0	0	0	0-0	792.1	1.32		
Magnesium	82.82	2.0	0	0	0	0-0	84.12	1.55		
Sodium	2015	2.0	0	0	0	0-0	2015	0.0133		

DUP		Sample ID: 1503886-01CDUP				Units: none		Analysis Date: 3/23/2015		
Client ID: NW Wall		Run ID: SAR_150323A				SeqNo: 3190265		Prep Date: 3/20/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	18.31	0.010	0	0	0		18.19	0.689	50	

The following samples were analyzed in this batch:

1503886-01C	1503886-02C	1503886-03C
1503886-04C	1503886-05C	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1503886
Project: Grynberg Petroleum Company: Federal 1-32 Oil Spi

QC BATCH REPORT

Batch ID: **68824** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK		Sample ID: MBLK-68824-68824				Units: mg/L		Analysis Date: 3/20/2015 12:40 PM		
Client ID:		Run ID: ICP2_150320A				SeqNo: 3187717		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.50								
Chromium	ND	0.25								
Copper	ND	0.50								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.50								
Silver	ND	0.25								
Zinc	ND	0.50								

LCS		Sample ID: LCS-68824-68824				Units: mg/L		Analysis Date: 3/20/2015 12:46 PM		
Client ID:		Run ID: ICP2_150320A				SeqNo: 3187718		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.844	0.25	5	0	96.9	80-120	0			
Barium	4.935	0.25	5	0	98.7	80-120	0			
Cadmium	4.821	0.50	5	0	96.4	80-120	0			
Chromium	5.19	0.25	5	0	104	80-120	0			
Copper	5.18	0.50	5	0	104	80-120	0			
Lead	5.189	0.25	5	0	104	80-120	0			
Nickel	5.136	0.25	5	0	103	80-120	0			
Selenium	4.923	0.50	5	0	98.5	80-120	0			
Silver	5.391	0.25	5	0	108	80-120	0			
Zinc	5.124	0.50	5	0	102	80-120	0			

MS		Sample ID: 1503886-04BMS				Units: mg/Kg		Analysis Date: 3/20/2015 12:57 PM		
Client ID: SE Wall		Run ID: ICP2_150320A				SeqNo: 3187720		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.51	0.35	6.935	5.084	107	75-125	0			
Barium	116.3	0.35	6.935	85.29	448	75-125	0			SO
Cadmium	7.028	0.69	6.935	0.06242	100	75-125	0			
Chromium	15.51	0.35	6.935	6.052	136	75-125	0			S
Copper	14.49	0.69	6.935	6.984	108	75-125	0			
Lead	15.02	0.35	6.935	8.539	93.4	75-125	0			
Nickel	15.86	0.35	6.935	8.817	101	75-125	0			
Selenium	7.281	0.69	6.935	0.1204	103	75-125	0			
Silver	8.572	0.35	6.935	-0.09512	125	75-125	0			
Zinc	48.82	0.69	6.935	40.28	123	75-125	0			O

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

Client: HRL Compliance Solutions, Inc
Work Order: 1503886
Project: Grynberg Petroleum Company: Federal 1-32 Oil Spi

QC BATCH REPORT

Batch ID: **68824** Instrument ID **ICP2** Method: **SW846 6010C**

MSD		Sample ID: 1503886-04BMSD				Units: mg/Kg		Analysis Date: 3/20/2015 01:02 PM		
Client ID: SE Wall		Run ID: ICP2_150320A				SeqNo: 3187721		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.74	0.35	6.954	5.084	110	75-125	12.51	1.86	20	
Barium	137	0.35	6.954	85.29	744	75-125	116.3	16.3	20	SO
Cadmium	7.132	0.70	6.954	0.06242	102	75-125	7.028	1.47	20	
Chromium	15.61	0.35	6.954	6.052	137	75-125	15.51	0.625	20	S
Copper	14.65	0.70	6.954	6.984	110	75-125	14.49	1.12	20	
Lead	15.49	0.35	6.954	8.539	100	75-125	15.02	3.11	20	
Nickel	16.17	0.35	6.954	8.817	106	75-125	15.86	1.99	20	
Selenium	7.497	0.70	6.954	0.1204	106	75-125	7.281	2.93	20	
Silver	8.698	0.35	6.954	-0.09512	126	75-125	8.572	1.46	20	S
Zinc	50.32	0.70	6.954	40.28	144	75-125	48.82	3.03	20	SO

The following samples were analyzed in this batch:

1503886-01B	1503886-02B	1503886-03B
1503886-04B	1503886-05B	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1503886
Project: Grynberg Petroleum Company: Federal 1-32 Oil Spi

QC BATCH REPORT

Batch ID: **68803** Instrument ID **SVMS8** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-68803-68803				Units: µg/Kg		Analysis Date: 3/19/2015 05:28 PM		
Client ID:		Run ID: SVMS8_150319A				SeqNo: 3187576		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Acenaphthylene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
<i>Surr: 2-Fluorobiphenyl</i>	1282	0	1667	0	76.9	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1696	0	1667	0	102	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1453	0	1667	0	87.2	37-107	0			

LCS		Sample ID: SLCSS1-68803-68803				Units: µg/Kg		Analysis Date: 3/19/2015 05:49 PM		
Client ID:		Run ID: SVMS8_150319A				SeqNo: 3187577		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	456.3	6.7	666.7	0	68.4	45-110	0			
Acenaphthylene	488	6.7	666.7	0	73.2	45-105	0			
Anthracene	602	6.7	666.7	0	90.3	55-105	0			
Benzo(a)anthracene	620.3	6.7	666.7	0	93	50-110	0			
Benzo(a)pyrene	626.7	6.7	666.7	0	94	50-110	0			
Benzo(b)fluoranthene	650	6.7	666.7	0	97.5	45-115	0			
Benzo(g,h,i)perylene	596	6.7	666.7	0	89.4	40-125	0			
Benzo(k)fluoranthene	620.3	6.7	666.7	0	93	45-115	0			
Chrysene	614	6.7	666.7	0	92.1	55-110	0			
Dibenzo(a,h)anthracene	605	6.7	666.7	0	90.7	40-125	0			
Fluoranthene	608.3	6.7	666.7	0	91.2	55-115	0			
Fluorene	492	6.7	666.7	0	73.8	50-110	0			
Indeno(1,2,3-cd)pyrene	599	6.7	666.7	0	89.8	40-120	0			
Naphthalene	429.3	6.7	666.7	0	64.4	40-105	0			
Pyrene	650.7	6.7	666.7	0	97.6	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	1089	0	1667	0	65.3	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1611	0	1667	0	96.7	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1243	0	1667	0	74.6	37-107	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 1503886
Project: Grynberg Petroleum Company: Federal 1-32 Oil Spi

QC BATCH REPORT

Batch ID: **68803** Instrument ID **SVMS8** Method: **SW846 8270D**

MS				Sample ID: 1503870-03B MS			Units: µg/Kg		Analysis Date: 3/19/2015 07:37 PM		
Client ID:			Run ID: SVMS8_150319A			SeqNo: 3187581		Prep Date: 3/19/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	868.2	13	1298	0	66.9	45-110	0				
Acenaphthylene	1028	13	1298	0	79.2	45-105	0				
Anthracene	1111	13	1298	0	85.6	55-105	0				
Benzo(a)anthracene	1171	13	1298	9.716	89.5	50-110	0				
Benzo(a)pyrene	1224	13	1298	9.716	93.6	50-110	0				
Benzo(b)fluoranthene	1174	13	1298	10.36	89.7	45-115	0				
Benzo(g,h,i)perylene	1208	13	1298	7.773	92.5	40-125	0				
Benzo(k)fluoranthene	1139	13	1298	5.83	87.3	45-115	0				
Chrysene	1123	13	1298	5.83	86.1	55-110	0				
Dibenzo(a,h)anthracene	1197	13	1298	0	92.2	40-125	0				
Fluoranthene	1105	13	1298	12.63	84.2	55-115	0				
Fluorene	973.3	13	1298	0	75	50-110	0				
Indeno(1,2,3-cd)pyrene	1276	13	1298	9.716	97.5	40-120	0				
Naphthalene	918.8	13	1298	0	70.8	40-105	0				
Pyrene	1235	13	1298	11.98	94.2	45-125	0				
Surr: 2-Fluorobiphenyl	2303	0	3244	0	71	12-100	0				
Surr: 4-Terphenyl-d14	2988	0	3244	0	92.1	25-137	0				
Surr: Nitrobenzene-d5	2662	0	3244	0	82	37-107	0				

MSD				Sample ID: 1503870-03B MSD			Units: µg/Kg		Analysis Date: 3/19/2015 07:58 PM		
Client ID:			Run ID: SVMS8_150319A			SeqNo: 3187582		Prep Date: 3/19/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	890	13	1262	0	70.5	45-110	868.2	2.48	30		
Acenaphthylene	1027	13	1262	0	81.3	45-105	1028	0.143	30		
Anthracene	1133	13	1262	0	89.7	55-105	1111	1.92	30		
Benzo(a)anthracene	1218	13	1262	9.716	95.7	50-110	1171	3.94	30		
Benzo(a)pyrene	1278	13	1262	9.716	100	50-110	1224	4.25	30		
Benzo(b)fluoranthene	1209	13	1262	10.36	94.9	45-115	1174	2.88	30		
Benzo(g,h,i)perylene	1252	13	1262	7.773	98.5	40-125	1208	3.54	30		
Benzo(k)fluoranthene	1165	13	1262	5.83	91.8	45-115	1139	2.3	30		
Chrysene	1146	13	1262	5.83	90.3	55-110	1123	2.04	30		
Dibenzo(a,h)anthracene	1241	13	1262	0	98.3	40-125	1197	3.59	30		
Fluoranthene	1136	13	1262	12.63	89	55-115	1105	2.78	30		
Fluorene	998.5	13	1262	0	79.1	50-110	973.3	2.56	30		
Indeno(1,2,3-cd)pyrene	1327	13	1262	9.716	104	40-120	1276	3.93	30		
Naphthalene	932.9	13	1262	0	73.9	40-105	918.8	1.53	30		
Pyrene	1260	13	1262	11.98	98.9	45-125	1235	2.06	30		
Surr: 2-Fluorobiphenyl	2304	0	3156	0	73	12-100	2303	0.0754	40		
Surr: 4-Terphenyl-d14	3073	0	3156	0	97.4	25-137	2988	2.8	40		
Surr: Nitrobenzene-d5	2744	0	3156	0	87	37-107	2662	3.07	40		

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

Client: HRL Compliance Solutions, Inc
Work Order: 1503886
Project: Grynberg Petroleum Company: Federal 1-32 Oil Spi

QC BATCH REPORT

Batch ID: **68803** Instrument ID **SVMS8** Method: **SW846 8270D**

The following samples were analyzed in this batch:	1503886-01B	1503886-02B	1503886-03B
	1503886-04B	1503886-05B	1503886-06A
	1503886-07A		

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

Client: HRL Compliance Solutions, Inc
Work Order: 1503886
Project: Grynberg Petroleum Company: Federal 1-32 Oil Spi

QC BATCH REPORT

Batch ID: **68713** Instrument ID **VMS5** Method: **SW8260B**

MBLK				Sample ID: MBLK-68713-68713				Units: µg/Kg			Analysis Date: 3/17/2015 04:46 PM		
Client ID:			Run ID: VMS5_150317A				SeqNo: 3182178		Prep Date: 3/17/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Benzene	ND	30											
Ethylbenzene	ND	30											
m,p-Xylene	ND	60											
o-Xylene	ND	30											
Toluene	ND	30											
Xylenes, Total	ND	90											
Surr: 1,2-Dichloroethane-d4	984	0	1000	0	98.4	70-130		0					
Surr: 4-Bromofluorobenzene	989.5	0	1000	0	99	70-130		0					
Surr: Dibromofluoromethane	998	0	1000	0	99.8	70-130		0					
Surr: Toluene-d8	1012	0	1000	0	101	70-130		0					

LCS				Sample ID: LCS-68713-68713			Units: µg/Kg		Analysis Date: 3/17/2015 03:29 PM		
Client ID:			Run ID: VMS5_150317A			SeqNo: 3182177		Prep Date: 3/17/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1029	30	1000	0	103	75-125	0				
Ethylbenzene	1063	30	1000	0	106	75-125	0				
m,p-Xylene	2148	60	2000	0	107	80-125	0				
o-Xylene	1062	30	1000	0	106	75-125	0				
Toluene	1042	30	1000	0	104	70-125	0				
Xylenes, Total	3211	90	3000	0	107	75-125	0				
Surr: 1,2-Dichloroethane-d4	988	0	1000	0	98.8	70-130	0				
Surr: 4-Bromofluorobenzene	1010	0	1000	0	101	70-130	0				
Surr: Dibromofluoromethane	1016	0	1000	0	102	70-130	0				
Surr: Toluene-d8	1001	0	1000	0	100	70-130	0				

MS				Sample ID: 1503886-05A MS			Units: µg/Kg		Analysis Date: 3/18/2015 11:53 PM		
Client ID: EXC. Bottom			Run ID: VMS7_150318A			SeqNo: 3185566		Prep Date: 3/18/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1015	30	1000	17	99.8	75-125		0			
Ethylbenzene	1012	30	1000	16.5	99.5	75-125		0			
m,p-Xylene	2092	60	2000	28.5	103	80-125		0			
o-Xylene	977.5	30	1000	0	97.8	75-125		0			
Toluene	986	30	1000	0	98.6	70-125		0			
Xylenes, Total	3070	90	3000	28	101	75-125		0			
Surr: 1,2-Dichloroethane-d4	946	0	1000	0	94.6	70-130		0			
Surr: 4-Bromofluorobenzene	1002	0	1000	0	100	70-130		0			
Surr: Dibromofluoromethane	961.5	0	1000	0	96.2	70-130		0			
Surr: Toluene-d8	941	0	1000	0	94.1	70-130		0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 1503886
Project: Grynberg Petroleum Company: Federal 1-32 Oil Spi

QC BATCH REPORT

Batch ID: **68713** Instrument ID **VMS5** Method: **SW8260B**

MSD				Sample ID: 1503886-05A MSD			Units: µg/Kg		Analysis Date: 3/19/2015 12:18 PM	
Client ID: EXC. Bottom				Run ID: VMS7_150318A			SeqNo: 3185568		Prep Date: 3/18/2015	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1120	30	1000	17	110	75-125	1015	9.79	30	
Ethylbenzene	1119	30	1000	16.5	110	75-125	1012	10.1	30	
m,p-Xylene	2278	60	2000	28.5	112	80-125	2092	8.51	30	
o-Xylene	1082	30	1000	0	108	75-125	977.5	10.2	30	
Toluene	1078	30	1000	0	108	70-125	986	8.87	30	
Xylenes, Total	3361	90	3000	28	111	75-125	3070	9.05	30	
Surr: 1,2-Dichloroethane-d4	956.5	0	1000	0	95.6	70-130	946	1.1	30	
Surr: 4-Bromofluorobenzene	989	0	1000	0	98.9	70-130	1002	1.26	30	
Surr: Dibromofluoromethane	967.5	0	1000	0	96.8	70-130	961.5	0.622	30	
Surr: Toluene-d8	944.5	0	1000	0	94.4	70-130	941	0.371	30	

The following samples were analyzed in this batch:

1503886-01A	1503886-02A	1503886-03A
1503886-04A	1503886-05A	1503886-06A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1503886
Project: Grynberg Petroleum Company: Federal 1-32 Oil Spi

QC BATCH REPORT

Batch ID: **68748** Instrument ID **VMS5** Method: **SW8260B**

MBLK		Sample ID: MBLK-68748-68748				Units: µg/Kg		Analysis Date: 3/18/2015 05:05 PM		
Client ID:		Run ID: VMS5_150318A				SeqNo: 3184674		Prep Date: 3/18/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	999.5	0	1000	0	100	70-130	0			
Surr: 4-Bromofluorobenzene	977.5	0	1000	0	97.8	70-130	0			
Surr: Dibromofluoromethane	997	0	1000	0	99.7	70-130	0			
Surr: Toluene-d8	1003	0	1000	0	100	70-130	0			

LCS		Sample ID: LCS-68748-68748				Units: µg/Kg		Analysis Date: 3/18/2015 03:48 PM		
Client ID:		Run ID: VMS5_150318A				SeqNo: 3184673		Prep Date: 3/18/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	974.5	30	1000	0	97.4	75-125	0			
Ethylbenzene	1026	30	1000	0	103	75-125	0			
m,p-Xylene	2082	60	2000	0	104	80-125	0			
o-Xylene	1012	30	1000	0	101	75-125	0			
Toluene	1004	30	1000	0	100	70-125	0			
Xylenes, Total	3094	90	3000	0	103	75-125	0			
Surr: 1,2-Dichloroethane-d4	992.5	0	1000	0	99.2	70-130	0			
Surr: 4-Bromofluorobenzene	1010	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	965.5	0	1000	0	96.6	70-130	0			
Surr: Toluene-d8	1011	0	1000	0	101	70-130	0			

The following samples were analyzed in this batch:

1503886-07A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1503886
Project: Grynberg Petroleum Company: Federal 1-32 Oil Spi

QC BATCH REPORT

Batch ID: **68717** Instrument ID **WETCHEM** Method: **SW9045D**

LCS				Sample ID: LCS-68717-68717				Units: s.u.			Analysis Date: 3/17/2015 04:00 PM			
Client ID:				Run ID: WETCHEM_150317M				SeqNo: 3181743			Prep Date: 3/17/2015		DF: 1	
Analyte				Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH 3.95 0 4 0 98.8 90-110 0

DUP		Sample ID: 1503833-04A DUP					Units: s.u.		Analysis Date: 3/17/2015 04:00 PM		
Client ID:		Run ID: WETCHEM_150317M			SeqNo: 3181754		Prep Date: 3/17/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH 7 0 0 0 0 0-0 7.15 2.12 20

DUP				Sample ID: 1503886-05B DUP				Units: s.u.		Analysis Date: 3/17/2015 04:00 PM			
Client ID: EXC. Bottom				Run ID: WETCHEM_150317M				SeqNo: 3181763		Prep Date: 3/17/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			

pH 7.87 0 0 0 0 0-0 7.88 0.127 20 H

The following samples were analyzed in this batch:

1503886-01B	1503886-02B	1503886-03B
1503886-04B	1503886-05B	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1503886
Project: Grynberg Petroleum Company: Federal 1-32 Oil Spi

QC BATCH REPORT

Batch ID: **68774** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP		Sample ID: 1503886-01C DUP				Units: mmhos/cm @25°		Analysis Date: 3/23/2015 12:00 PM		
Client ID: NW Wall		Run ID: WETCHEM_150323E				SeqNo: 3189927		Prep Date: 3/20/2015		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	17.02	0.050	0	0	0		17.23	1.23	50	

The following samples were analyzed in this batch:

1503886-01C	1503886-02C	1503886-03C
1503886-04C	1503886-05C	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1503886
Project: Grynberg Petroleum Company: Federal 1-32 Oil Spi

QC BATCH REPORT

Batch ID: **68890** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-68890-68890				Units: mg/Kg		Analysis Date: 3/20/2015 04:00 PM		
Client ID:		Run ID: WETCHEM_150320N		SeqNo: 3188483		Prep Date: 3/19/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 1.0

LCS		Sample ID: LCS-68890-68890				Units: mg/Kg		Analysis Date: 3/20/2015 04:00 PM		
Client ID:		Run ID: WETCHEM_150320N		SeqNo: 3188482		Prep Date: 3/19/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 5.04 1.0 5 0 101 80-120 0

MS		Sample ID: 1503832-01B MS				Units: mg/Kg		Analysis Date: 3/20/2015 04:00 PM		
Client ID:		Run ID: WETCHEM_150320N		SeqNo: 3188468		Prep Date: 3/19/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.346 0.93 4.673 0.1101 90.6 75-125 0

MS		Sample ID: 1503832-01B MSI				Units: mg/Kg		Analysis Date: 3/20/2015 04:00 PM		
Client ID:		Run ID: WETCHEM_150320N		SeqNo: 3188470		Prep Date: 3/19/2015		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2963 93 3203 0.1101 92.5 75-125 0

MSD		Sample ID: 1503832-01B MSD				Units: mg/Kg		Analysis Date: 3/20/2015 04:00 PM		
Client ID:		Run ID: WETCHEM_150320N		SeqNo: 3188469		Prep Date: 3/19/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.109 0.91 4.545 0.1101 88 75-125 4.346 5.6 20

The following samples were analyzed in this batch:

1503886-01B	1503886-02B	1503886-03B
1503886-04B	1503886-05B	

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

Client: HRL Compliance Solutions, Inc
Work Order: 1503886
Project: Grynberg Petroleum Company: Federal 1-32 Oil Spi

QC BATCH REPORT

Batch ID: **R159568** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R159568				Units: % of sample		Analysis Date: 3/19/2015 04:02 PM		
Client ID:		Run ID: MOIST_150319B				SeqNo: 3187436		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture ND 0.050

LCS		Sample ID: LCS-R159568				Units: % of sample		Analysis Date: 3/19/2015 04:02 PM		
Client ID:		Run ID: MOIST_150319B				SeqNo: 3187435		Prep Date:		DF: 1
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

DUP		Sample ID: 1503886-01B DUP				Units: % of sample		Analysis Date: 3/19/2015 04:02 PM		
Client ID: NW Wall		Run ID: MOIST_150319B				SeqNo: 3187414		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 8.47 0.050 0 0 0 8.69 2.56 20

DUP		Sample ID: 1503937-02A DUP				Units: % of sample		Analysis Date: 3/19/2015 04:02 PM		
Client ID:		Run ID: MOIST_150319B				SeqNo: 3187427		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 14.07 0.050 0 0 0 13.48 4.28 20

The following samples were analyzed in this batch:

1503886-01B	1503886-02B	1503886-03B
1503886-04B	1503886-05B	1503886-06A
1503886-07A		

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



ALS Environmental

3352 126th Avenue Holland, MI 49424
PH: (616) 399-8070

Chain-of-Custody

Form 282a

WORKORDER
#

1503886

PROJECTNAME Grynberg Petroleum Company: Federal 1-32 Oil Spill		SAMPLER Mark Mumby		DATE 03/16/15		PAGE 1 of 1	
PROJECT No.		SITE ID Federal 1-32		TURNAROUND 5-day		DISPOSAL By Lab or Return to Client	
COMPANYNAME HRL Compliance Solutions, Inc.		EDD FORMAT		BTEX GRO DRO PAH EC, SAR, pH (COGCC 910.1) Metals			
SEND REPORT TO Mark Mumby		PURCHASE ORDER					
ADDRESS 2385 F 1/2 Road		BILL TO COMPANY HRL Compliance Solutions					
CITY/STATE/ZIP Grand Junction, CO 81505		INVOICE ATTN TO Melissa DeRose					
PHONE 970-243-3271		ADDRESS 2385 F 1/2 Road					
FAX 970-243-3280		CITY/STATE/ZIP Grand Junction, CO 81505					
E-MAIL mmumby@hrlcomp.com		PHONE 970-243-3271					
FAX 970-243-3280		E-MAIL mderose@hrlcomp.com					
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
1	NW Wall	S	03/16/15	9:45	3	8	
2	NE Wall	S	03/16/15	9:50	3	8	
3	SW Wall	S	03/16/15	9:55	3	8	
4	SE Wall	S	03/16/15	10:00	3	8	
5	EXC. Bottom	S	03/16/15	10:15	3	8	
6	Stockpile 1	S	03/16/15	10:30	1	8	
7	Stockpile 2	S	03/16/15	10:35	1	8	

*Time Zone (Circle): EST CST MT 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:

Complete organic and inorganic analysis for COGCC 910.1 table (Except Stockpile 1 and stockpile 2)

3.0⁰L

QC PACKAGE (check below)

X	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

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

SIGNATURE	PRINTED NAME	DATE	TIME
<i>Mark Mumby</i>	Mark Mumby	03/16/15	12:00
<i>Keith Wierenga</i>	Keith Wierenga	3/17/15	1000
RELINQUISHED BY			
RECEIVED BY			
RELINQUISHED BY			
RECEIVED BY			
RELINQUISHED BY			
RECEIVED BY			

Align Open End of FedEx Pouch Here

FedEx NEW Package
Express US Airbill

FedEx Tracking Number 8059 2388 8319

1 From
Date 03/16/15
Sender's Name HCL
Company HCL COMPLIANCE
Address 2385 F42 RD
City GRAND Junction State CO ZIP 81505
Phone 970 243-3271

2 Your Internal Billing Reference

3 To
Recipient's Name ALS RECEIVING
Company ALS GROUP
Address 3352 128TH AVE
City Holland State MI ZIP 49424
Phone 616 399-6070



Signature: Little John
Date: 3/16/15



4 Express Package Service
2-3 Business Days
FedEx 2Day AM
FedEx 2Day
FedEx Express Saver

5 Packaging
FedEx Envelope
FedEx Pak
FedEx Box
FedEx Tube
Other

6 Special Handling and Delivery Signature Options
SATURDAY Delivery
No Signature Required
Direct Signature
Indirect Signature
Does this shipment contain dangerous goods?

7 Payment
Sender
Recipient
Third Party
Credit Card
Cash/Check

XX H

TRK 8059 2388 8319

CUSTODY SEAL

TUE - 17 MAR 3:00P
STANDARD OVERNIGHT

MI-US
49424
GRR



TO
ALS RECEIVING
ALS ENVIRONMENTAL
3352 128TH AVE
HOLLAND MI 49424
(616) 399-6070

fedex.com 1.800.GoFedEx 1.800.463.3339

UNLIMITED STATES US

15 RITZ 11/13 21/10 001210

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 17-Mar-15 10:00

Work Order: 1503886

Received by: KRW

Checklist completed by Keith Wurenga 17-Mar-15
eSignature Date

Reviewed by: Chad Whelton 17-Mar-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>3.0 C</u> <u>SR2</u>		
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>3/17/2015 10:06:26 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: