



21-May-2014

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

Re: **WPX GV 25-27 Historical Spill 5.16.14**

Work Order: **1405895**

Dear Mark,

ALS Environmental received 2 samples on 17-May-2014 10:15 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 11.

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

Sincerely,

A handwritten signature in cursive script that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston
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 The ALS logo, a stylized blue triangle with a yellow flame inside.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: WPX GV 25-27 Historical Spill 5.16.14
Work Order: 1405895

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>
1405895-01	Pond Pt 1	Water		5/16/2014 14:00	5/17/2014 10:15	<input type="checkbox"/>
1405895-02	Pond Pt 2	Water		5/16/2014 14:15	5/17/2014 10:15	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: WPX GV 25-27 Historical Spill 5.16.14
WorkOrder: 1405895

QUALIFIERS, ACRONYMS, UNITS

<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

<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>
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

ALS Group USA, Corp

Date: 21-May-14

Client: HRL Compliance Solutions, Inc
Project: WPX GV 25-27 Historical Spill 5.16.14
Sample ID: Pond Pt 1
Collection Date: 5/16/2014 02:00 PM

Work Order: 1405895
Lab ID: 1405895-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: AK
Benzene	ND		1.0	µg/L	1	5/19/2014 11:00 PM
Ethylbenzene	ND		1.0	µg/L	1	5/19/2014 11:00 PM
m,p-Xylene	ND		2.0	µg/L	1	5/19/2014 11:00 PM
o-Xylene	ND		1.0	µg/L	1	5/19/2014 11:00 PM
Toluene	ND		1.0	µg/L	1	5/19/2014 11:00 PM
Xylenes, Total	ND		3.0	µg/L	1	5/19/2014 11:00 PM
Surr: 1,2-Dichloroethane-d4	101		75-120	%REC	1	5/19/2014 11:00 PM
Surr: 4-Bromofluorobenzene	101		80-110	%REC	1	5/19/2014 11:00 PM
Surr: Dibromofluoromethane	100		85-115	%REC	1	5/19/2014 11:00 PM
Surr: Toluene-d8	97.1		85-110	%REC	1	5/19/2014 11:00 PM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: ED
Chloride	510		40	mg/L	40	5/20/2014 11:29 AM
Sulfate	1,100		100	mg/L	100	5/20/2014 12:15 PM
TOTAL DISSOLVED SOLIDS			A2540 C-97		Prep: Water Ext. / 5/20/14	Analyst: YM
Total Dissolved Solids	2,400		20	mg/L	1	5/20/2014 08:30 AM

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

ALS Group USA, Corp

Date: 21-May-14

Client: HRL Compliance Solutions, Inc
Project: WPX GV 25-27 Historical Spill 5.16.14
Sample ID: Pond Pt 2
Collection Date: 5/16/2014 02:15 PM

Work Order: 1405895
Lab ID: 1405895-02
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: AK
Benzene	ND		1.0	µg/L	1	5/19/2014 11:25 PM
Ethylbenzene	ND		1.0	µg/L	1	5/19/2014 11:25 PM
m,p-Xylene	ND		2.0	µg/L	1	5/19/2014 11:25 PM
o-Xylene	ND		1.0	µg/L	1	5/19/2014 11:25 PM
Toluene	ND		1.0	µg/L	1	5/19/2014 11:25 PM
Xylenes, Total	ND		3.0	µg/L	1	5/19/2014 11:25 PM
Surr: 1,2-Dichloroethane-d4	100		75-120	%REC	1	5/19/2014 11:25 PM
Surr: 4-Bromofluorobenzene	101		80-110	%REC	1	5/19/2014 11:25 PM
Surr: Dibromofluoromethane	99.4		85-115	%REC	1	5/19/2014 11:25 PM
Surr: Toluene-d8	98.6		85-110	%REC	1	5/19/2014 11:25 PM
ANIONS BY ION CHROMATOGRAPHY			SW9056			Analyst: ED
Chloride	520		40	mg/L	40	5/20/2014 11:49 AM
Sulfate	1,100		100	mg/L	100	5/20/2014 12:35 PM
TOTAL DISSOLVED SOLIDS			A2540 C-97		Prep: Water Ext. / 5/20/14	Analyst: YM
Total Dissolved Solids	2,400		20	mg/L	1	5/20/2014 08:30 AM

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

Client: HRL Compliance Solutions, Inc
Work Order: 1405895
Project: WPX GV 25-27 Historical Spill 5.16.14

QC BATCH REPORT

Batch ID: **R141039** Instrument ID **VMS7** Method: **SW8260**

MBLK		Sample ID: VBK2-140519-R141039				Units: µg/L		Analysis Date: 5/19/2014 10:09 PM		
Client ID:		Run ID: VMS7_140519A				SeqNo: 2770304		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	20.5	0	20	0	102	75-120	0			
Surr: 4-Bromofluorobenzene	19.95	0	20	0	99.8	80-110	0			
Surr: Dibromofluoromethane	20.12	0	20	0	101	85-115	0			
Surr: Toluene-d8	19.65	0	20	0	98.2	85-110	0			

LCS		Sample ID: VLCSW1-140519-R141039				Units: µg/L		Analysis Date: 5/19/2014 08:53 PM		
Client ID:		Run ID: VMS7_140519A				SeqNo: 2770303		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.79	1.0	20	0	104	85-125	0			
Ethylbenzene	20.53	1.0	20	0	103	85-125	0			
m,p-Xylene	40.13	2.0	40	0	100	75-130	0			
o-Xylene	19.96	1.0	20	0	99.8	80-125	0			
Toluene	18.41	1.0	20	0	92	85-125	0			
Xylenes, Total	60.09	3.0	60	0	100	80-126	0			
Surr: 1,2-Dichloroethane-d4	19.49	0	20	0	97.4	75-120	0			
Surr: 4-Bromofluorobenzene	16.82	0	20	0	84.1	80-110	0			
Surr: Dibromofluoromethane	19.9	0	20	0	99.5	85-115	0			
Surr: Toluene-d8	17.81	0	20	0	89	85-110	0			

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

Client: HRL Compliance Solutions, Inc
 Work Order: 1405895
 Project: WPX GV 25-27 Historical Spill 5.16.14

QC BATCH REPORT

Batch ID: **R141039** Instrument ID **VMS7** Method: **SW8260**

MS				Sample ID: 1405894-02B MS			Units: µg/L		Analysis Date: 5/20/2014 07:01 AM	
Client ID:		Run ID: VMS7_140519A			SeqNo: 2770310		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.41	1.0	20	0.56	94.2	85-125	0			
Ethylbenzene	19.51	1.0	20	0.29	96.1	85-125	0			
m,p-Xylene	37.48	2.0	40	4.61	82.2	75-130	0			
o-Xylene	17.5	1.0	20	0.5	85	80-125	0			
Toluene	21.87	1.0	20	3.92	89.8	85-125	0			
Xylenes, Total	54.98	3.0	60	5.11	83.1	80-126	0			
Surr: 1,2-Dichloroethane-d4	19.68	0	20	0	98.4	75-120	0			
Surr: 4-Bromofluorobenzene	18.58	0	20	0	92.9	80-110	0			
Surr: Dibromofluoromethane	21.31	0	20	0	107	85-115	0			
Surr: Toluene-d8	19.29	0	20	0	96.4	85-110	0			

MSD				Sample ID: 1405894-02B MSD			Units: µg/L		Analysis Date: 5/20/2014 07:26 AM	
Client ID:		Run ID: VMS7_140519A			SeqNo: 2770311		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.13	1.0	20	0.56	97.8	85-125	19.41	3.64	30	
Ethylbenzene	18.57	1.0	20	0.29	91.4	85-125	19.51	4.94	30	
m,p-Xylene	36.09	2.0	40	4.61	78.7	75-130	37.48	3.78	30	
o-Xylene	18.45	1.0	20	0.5	89.8	80-125	17.5	5.29	30	
Toluene	21.3	1.0	20	3.92	86.9	85-125	21.87	2.64	30	
Xylenes, Total	54.54	3.0	60	5.11	82.4	80-126	54.98	0.804	30	
Surr: 1,2-Dichloroethane-d4	20.57	0	20	0	103	75-120	19.68	4.42	30	
Surr: 4-Bromofluorobenzene	18.8	0	20	0	94	80-110	18.58	1.18	30	
Surr: Dibromofluoromethane	20.7	0	20	0	104	85-115	21.31	2.9	30	
Surr: Toluene-d8	20.01	0	20	0	100	85-110	19.29	3.66	30	

The following samples were analyzed in this batch:

1405895-01A 1405895-02A

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

Client: HRL Compliance Solutions, Inc
Work Order: 1405895
Project: WPX GV 25-27 Historical Spill 5.16.14

QC BATCH REPORT

Batch ID: **58828** Instrument ID **TDS** Method: **A2540 C-97**

MBLK		Sample ID: MBLK-58828-58828				Units: mg/L		Analysis Date: 5/20/2014 08:30 AM		
Client ID:		Run ID: TDS_140520A				SeqNo: 2770432		Prep Date: 5/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids ND 4.0

LCS		Sample ID: LCS-58828-58828				Units: mg/L		Analysis Date: 5/20/2014 08:30 AM		
Client ID:		Run ID: TDS_140520A				SeqNo: 2770431		Prep Date: 5/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids 464 10 495 0 93.7 80-120 0

DUP		Sample ID: 1405765-01A DUP				Units: mg/L		Analysis Date: 5/20/2014 08:30 AM		
Client ID:		Run ID: TDS_140520A				SeqNo: 2770412		Prep Date: 5/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids 1243 10 0 0 0 0-0 1232 0.889 20

DUP		Sample ID: 1405868-06A DUP				Units: mg/L		Analysis Date: 5/20/2014 08:30 AM		
Client ID:		Run ID: TDS_140520A				SeqNo: 2770422		Prep Date: 5/20/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids 406 20 0 0 0 0-0 392 3.51 20

The following samples were analyzed in this batch:

1405895-01B 1405895-02B

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

Client: HRL Compliance Solutions, Inc
Work Order: 1405895
Project: WPX GV 25-27 Historical Spill 5.16.14

QC BATCH REPORT

Batch ID: **R141146** Instrument ID **IC4** Method: **SW9056**

MBLK		Sample ID: CCB/MBLK-R141146				Units: mg/L		Analysis Date: 5/20/2014 07:40 AM		
Client ID:		Run ID: IC4_140520A				SeqNo: 2772552		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride	ND	1.0								
Sulfate	ND	1.0								

LCS		Sample ID: LCS-R141146				Units: mg/L		Analysis Date: 5/20/2014 08:00 AM		
Client ID:		Run ID: IC4_140520A				SeqNo: 2772553		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride	10.25	1.0	10	0	102	88-107	0			
Sulfate	10.65	1.0	10	0	106	85-110	0			

MS		Sample ID: 1405895-02B MS				Units: mg/L		Analysis Date: 5/20/2014 12:55 PM		
Client ID: Pond Pt 2		Run ID: IC4_140520A				SeqNo: 2772561		Prep Date:		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride	937.3	100	400	487.6	112	75-125	0			
Sulfate	1608	100	400	1135	118	75-125	0			

MSD		Sample ID: 1405895-02B MSD				Units: mg/L		Analysis Date: 5/20/2014 01:15 PM		
Client ID: Pond Pt 2		Run ID: IC4_140520A				SeqNo: 2772562		Prep Date:		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride	928.6	100	400	487.6	110	75-125	937.3	0.931	20	
Sulfate	1588	100	400	1135	113	75-125	1608	1.27	20	

The following samples were analyzed in this batch:

1405895-01B	1405895-02B
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ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
 TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER #

1405895

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

PROJECT NAME WPX LV25-27 Historical

SAMPLER Reed Wold

DATE 5/16/14

TURNAROUND

24HR

PROJECT No.

Spill

EDD FORMAT

PURCHASE ORDER

COMPANY NAME HRL Compliance

BILL TO COMPANY WPX

SEND REPORT TO Mark Mumby

INVOICE ATTN TO Karolina Blaney

ADDRESS 2385 F 1/2 Rd

ADDRESS 1058 Co Rd 215

CITY / STATE / ZIP Grand Junction, CO 81506

CITY / STATE / ZIP Parachute CO 81635

PHONE 970-243-3271

PHONE 970-683-2295

FAX 970-243-3280

FAX

E-MAIL mmumby@hrlcomp.com
 rwold@hrlcomp.com

E-MAIL Karolina.blaney@wpenergy.com

Lab ID

Field ID

Matrix

Sample Date

Sample Time

Bottles

Pres.

QC

BTEX

TDS

Chlorides

Sulfates

1

Pond P#1

W

5/16/14

2:05

4

X

X

X

X

2

Pond P#2

W

5/16/14

2:15

4

X

X

X

X

*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:

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

RELINQUISHED BY

Reed Wold

Reed Wold

5/16/14

3:00

RECEIVED BY

Nick M.

Nick M.

5-16-14

4:38

RELINQUISHED BY

Nick M.

Nick M.

5-16-14

5:00

RECEIVED BY

Keith L. KENNEDY

Keith L. KENNEDY

5/17/14

10:15

RELINQUISHED BY

Keith L. KENNEDY

Keith L. KENNEDY

5/17/14

10:15

RECEIVED BY

Keith L. KENNEDY

Keith L. KENNEDY

5/17/14

10:15

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 17-May-14 10:15

Work Order: 1405895

Received by: KRW

Checklist completed by Keith Wurenga 17-May-14
eSignature Date

Reviewed by: Ann Preston 19-May-14
eSignature Date

Matrices: Water

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>3.2 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>5/17/2014 11:38:08 AM</u>		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: