Client: Horizon Environmental
Project: Reclamation Oil
Work Order: 1104350

Case Narrative

QC Summary

PCB's

Batch 32848, Method 8082, Sample 1104350-01A MS/MSD: "S" flags for Aroclor's 1016/1260 on MS and MSD (out of range- high) are due to matrix. High concentration of 1254 in parent sample caused elevated recoveries for other aroclors.

ALS Group USA, Corp

Date: 01-May-11

Client: Horizon Environmental
Project: Reclamation Oil
WorkOrder: **1104350**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	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 detected below quantitation 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

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
TDL	Target Detection Limit

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-19
Collection Date: 4/14/2011 02:30 PM

Work Order: 1104350
Lab ID: 1104350-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **4/15/2011**	Analyst: **JD**
Aroclor 1016	ND	U5	41	µg/Kg-dry	1	4/15/2011 03:30 PM
Aroclor 1221	ND		41	µg/Kg-dry	1	4/15/2011 03:30 PM
Aroclor 1232	ND		41	µg/Kg-dry	1	4/15/2011 03:30 PM
Aroclor 1242	ND		41	µg/Kg-dry	1	4/15/2011 03:30 PM
Aroclor 1248	ND		41	µg/Kg-dry	1	4/15/2011 03:30 PM
Aroclor 1254	**20,000**		**830**	**µg/Kg-dry**	20	4/16/2011 10:39 AM
Aroclor 1260	ND	U5	41	µg/Kg-dry	1	4/15/2011 03:30 PM
Aroclor 1262	ND		41	µg/Kg-dry	1	4/15/2011 03:30 PM
Aroclor 1268	ND		41	µg/Kg-dry	1	4/15/2011 03:30 PM
Surr: Decachlorobiphenyl	*80.1*		*40-140*	*%REC*	1	4/15/2011 03:30 PM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**13**		**0.050**	**% of sample**	1	4/15/2011 12:35 PM

KH 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-20
Collection Date: 4/14/2011 02:40 PM

Work Order: 1104350
Lab ID: 1104350-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **4/15/2011**	Analyst: **JD**
Aroclor 1016	ND	UJ	56	µg/Kg-dry	1	4/15/2011 03:30 PM
Aroclor 1221	ND		56	µg/Kg-dry	1	4/15/2011 03:30 PM
Aroclor 1232	ND		56	µg/Kg-dry	1	4/15/2011 03:30 PM
Aroclor 1242	ND		56	µg/Kg-dry	1	4/15/2011 03:30 PM
Aroclor 1248	ND		56	µg/Kg-dry	1	4/15/2011 03:30 PM
Aroclor 1254	**210**		**56**	**µg/Kg-dry**	1	4/15/2011 03:30 PM
Aroclor 1260	ND	UJ	56	µg/Kg-dry	1	4/15/2011 03:30 PM
Aroclor 1262	ND		56	µg/Kg-dry	1	4/15/2011 03:30 PM
Aroclor 1268	ND		56	µg/Kg-dry	1	4/15/2011 03:30 PM
Surr: Decachlorobiphenyl	*77.1*		*40-140*	*%REC*	1	4/15/2011 03:30 PM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**31**		**0.050**	**% of sample**	1	4/15/2011 12:35 PM

KH 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-FD-VS-20
Collection Date: 4/14/2011 02:42 PM

Work Order: 1104350
Lab ID: 1104350-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **4/15/2011**	Analyst: **JD**
Aroclor 1016	ND	UJ	47	µg/Kg-dry	1	4/15/2011 03:30 PM
Aroclor 1221	ND		47	µg/Kg-dry	1	4/15/2011 03:30 PM
Aroclor 1232	ND		47	µg/Kg-dry	1	4/15/2011 03:30 PM
Aroclor 1242	ND		47	µg/Kg-dry	1	4/15/2011 03:30 PM
Aroclor 1248	ND		47	µg/Kg-dry	1	4/15/2011 03:30 PM
Aroclor 1254	**530**		**47**	**µg/Kg-dry**	1	4/15/2011 03:30 PM
Aroclor 1260	ND	UJ	47	µg/Kg-dry	1	4/15/2011 03:30 PM
Aroclor 1262	ND		47	µg/Kg-dry	1	4/15/2011 03:30 PM
Aroclor 1268	ND		47	µg/Kg-dry	1	4/15/2011 03:30 PM
Surr: Decachlorobiphenyl	*73.1*		*40-140*	*%REC*	1	4/15/2011 03:30 PM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**19**		**0.050**	**% of sample**	1	4/15/2011 12:35 PM

KH 5/2/11

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

ALS Group USA, Corp

Date: 01-May-11

Client: Horizon Environmental
Work Order: 1104350
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **32848** Instrument ID **GC4** Method: **SW8082**

MBLK Sample ID: **PBLKS1-32848-32848** Units: **µg/Kg** Analysis Date: **4/15/2011 03:30 PM**

Client ID: Run ID: **GC4_110415A** SeqNo: **1602042** Prep Date: **4/15/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	40								
Aroclor 1221	ND	40								
Aroclor 1232	ND	40								
Aroclor 1242	ND	40								
Aroclor 1248	ND	40								
Aroclor 1254	ND	40								
Aroclor 1260	ND	40								
Aroclor 1262	ND	40								
Aroclor 1268	ND	40								
Surr: Decachlorobiphenyl	*32*	0	*33.3*	0	*96.1*	*50-130*	0			

MBLK Sample ID: **PBLKS1-32848-32848** Units: **µg/Kg** Analysis Date: **4/15/2011 03:30 PM**

Client ID: Run ID: **GC4_110415A** SeqNo: **1602045** Prep Date: **4/15/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	40								
Aroclor 1221	ND	40								
Aroclor 1232	ND	40								
Aroclor 1242	ND	40								
Aroclor 1248	ND	40								
Aroclor 1254	ND	40								
Aroclor 1260	ND	40								
Surr: Decachlorobiphenyl	*32*	0	*33.3*	0	*96.1*	*50-130*	0			

LCS Sample ID: **PLCSS1-32848-32848** Units: **µg/Kg** Analysis Date: **4/15/2011 03:30 PM**

Client ID: Run ID: **GC4_110415A** SeqNo: **1602044** Prep Date: **4/15/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	818.7	40	833	0	98.3	50-130	0			
Aroclor 1260	811	40	833	0	97.4	50-130	0			
Surr: Decachlorobiphenyl	*30*	0	*33.3*	0	*90.1*	*50-130*	0			

LCS Sample ID: **PLCSS1-32848-32848** Units: **µg/Kg** Analysis Date: **4/15/2011 03:30 PM**

Client ID: Run ID: **GC4_110415A** SeqNo: **1602047** Prep Date: **4/15/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	818.7	40	833	0	98.3	50-130	0			
Aroclor 1260	811	40	833	0	97.4	50-130	0			
Surr: Decachlorobiphenyl	*30*	0	*33.3*	0	*90.1*	*50-130*	0			

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

Client: Horizon Environmental
Work Order: 1104350
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **32848** Instrument ID **GC4** Method: **SW8082**

LCSD Sample ID: **PLCSDS1-32848-32848** Units: **µg/Kg** Analysis Date: **4/15/2011 03:30 PM**
Client ID: Run ID: **GC4_110415A** SeqNo: **1602043** Prep Date: **4/15/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	833.7	40	833	0	100	50-130	818.7	1.82	25	
Aroclor 1260	879	40	833	0	106	50-130	811	8.05	25	
Surr: Decachlorobiphenyl	*32.33*	0	*33.3*	0	*97.1*	*50-130*	30	*7.49*	*25*	

LCSD Sample ID: **PLCSDS1-32848-32848** Units: **µg/Kg** Analysis Date: **4/15/2011 03:30 PM**
Client ID: Run ID: **GC4_110415A** SeqNo: **1602046** Prep Date: **4/15/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	833.7	40	833	0	100	50-130	818.7	1.82	25	
Aroclor 1260	879	40	833	0	106	50-130	811	8.05	25	
Surr: Decachlorobiphenyl	*32.33*	0	*33.3*	0	*97.1*	*50-130*	30	*7.49*	*25*	

MS Sample ID: **1104350-01A MS** Units: **µg/Kg** Analysis Date: **4/15/2011 03:30 PM**
Client ID: **RO-S-VS-19** Run ID: **GC4_110415A** SeqNo: **1602038** Prep Date: **4/15/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	1308	37	764.4	0	171	40-140	0			S
Aroclor 1260	3744	37	764.4	0	490	40-140	0			SE
Surr: Decachlorobiphenyl	*24.16*	0	*30.56*	0	*79.1*	*40-140*	0			

MSD Sample ID: **1104350-01A MSD** Units: **µg/Kg** Analysis Date: **4/15/2011 03:30 PM**
Client ID: **RO-S-VS-19** Run ID: **GC4_110415A** SeqNo: **1602039** Prep Date: **4/15/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	1201	36	750.4	0	160	40-140	1308	8.58	50	S
Aroclor 1260	3135	36	750.4	0	418	40-140	3744	17.7	50	SE
Surr: Decachlorobiphenyl	*21.32*	0	*30*	0	*71.1*	*40-140*	24.16	*12.5*	*50*	

The following samples were analyzed in this batch: 1104350-01A 1104350-02A 1104350-03A

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

Client: Horizon Environmental
Work Order: 1104350
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89082** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS1-R89082** Units: **% of sample** Analysis Date: **4/15/2011 12:35 PM**
Client ID: Run ID: **MOIST_110415A** SeqNo: **1601895** 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-R89082** Units: **% of sample** Analysis Date: **4/15/2011 12:35 PM**
Client ID: Run ID: **MOIST_110415A** SeqNo: **1601891** 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: **1104358-02A DUP** Units: **% of sample** Analysis Date: **4/15/2011 12:35 PM**
Client ID: Run ID: **MOIST_110415A** SeqNo: **1601881** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	44.22	0.050	0	0	0	0-0	45.02	1.79	20	

DUP Sample ID: **1104405-03B DUP** Units: **% of sample** Analysis Date: **4/15/2011 12:35 PM**
Client ID: Run ID: **MOIST_110415A** SeqNo: **1601887** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	12.1	0.050	0	0	0	0-0	12.18	0.659	20	

The following samples were analyzed in this batch: 1104350-01A 1104350-02A 1104350-03A

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

☐ **ALS Environmental**
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
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Chain of Custody Form

Page ____ of ____

COC ID: 11391

☐ **ALS Environmental**
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager: | ALS Work Order #: 1104350

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Reclamation Oil	A	PCB's
Work Order		Project Number		B	
Company Name	Horizon Environmental	Bill To Company	Horizon Environmental	C	
Send Report To	Karen Hathaway	Invoice Attn	Accounts Payable	D	
Address	4771 50th Street	Address	4771 50th Street	E	
				F	
City/State/Zip	Grand Rapids, MI 49512	City/State/Zip	Grand Rapids, MI 49512	G	
Phone	(616) 554-3210	Phone	(616) 554-3210	H	
Fax	(616) 554-3211	Fax	(616) 554-3211	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	~~RO-S~~ RO-S-VS-19	4-14-11	1430	S		1	X										
2	RO-S-VS-20		1440	S		1	X										
3	RO-FD-VS-20 ~~RO-S-VS-20 Dup~~	KH 4/28/11	1442	S		1	X										
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Mike Potter

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☒ 24 Hour ☐ Other ____

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	
	4-14-11	3:5 pm		
Relinquished by:	Date: 4/14/11	Time:	Received by (Laboratory):	4/15/11 0730
Logged by (Laboratory): DES	Date: 4/15/11	Time: 0800	Checked by (Laboratory):	

Notes:

Cooler ID	Cooler Temp.
	3.6 c

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other ____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL

Date: 4/14/11 Time:
Name:
Company:

Seal Broken By:
Date:

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL

Date: 4/14/11 Time:
Name:
Company:

Seal Broken By:
Date:

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HORIZONENV-GR** Date/Time Received: **15-Apr-11 07:30**

Work Order: **1104350** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 15-Apr-11 (Date) Reviewed by: Joseph Rebar (eSignature) 15-Apr-11 (Date)

Matrices: Soil
Carrier name: City Transfer

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.6 c		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

DATA VALIDATION REPORT

RECLAMATION OIL SITE
6472 SELKIRK STREET
DETROIT, MICHIGAN

Date: May 2, 2011
Laboratory: ALS Laboratory Group (ALS), Holland, Michigan
Laboratory Work Order #: 1104422
Data Validation Performed By: Karen Hathaway, Horizon Environmental

This data validation report has been prepared by Horizon Environmental Corporation on behalf of the Respondents to the Administrative Settlement Agreement and Order on Consent for Removal Action Docket No. V-W-10-C-955 (Settlement Agreement) entered into by the U.S. Environmental Protection Agency (U.S. EPA) and Respondents[1] with an effective date of September 30, 2010.

This report documents the data validation for 7 soil samples (plus one duplicate sample and one methanol trip blank) collected from the Reclamation Oil Site that were analyzed for the following parameters by U.S. Environmental Protection Agency (U.S. EPA) methods:

- Target Compound List (TCL) Volatile Organic Compounds (VOC) by SW-846 Method 8260B;
- Polychlorinated biphenyls (PCB) by SW-846 Method 8082; and
- Arsenic and lead by SW-846 Method 6020A.

All of the collected samples were analyzed by the laboratory (100% completeness). A Level II data package was requested from ALS. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

VOCs BY SW-846 METHOD 8260B

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

[1] The Respondents consist of Univar USA Inc., SPX Corporation, BorgWarner Inc., and Ford Motor Company.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
RO-S-VS-21	1104422-01	Soil	4/15/2011	4/17/2011
RO-S-VS-22	1104422-02	Soil	4/15/2011	4/17/2011
RO-S-VS-23	1104422-03	Soil	4/15/2011	4/19/2011
RO-S-VS-24	1104422-04	Soil	4/15/2011	4/17/2011
RO-S-VS-25	1104422-05	Soil	4/15/2011	4/17/2011
RO-S-VS-26	1104422-06	Soil	4/15/2011	4/17-19/2011
RO-S-VS-27	1104422-07	Soil	4/15/2011	4/17/2011
RO-FD-VS-27	1104422-08	Soil	4/15/2011	4/17/2011
RO-MB-02	1104422-09	Soil	4/15/2011	4/17/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection.

3. Blanks

Method blanks were analyzed with the samples for VOC analyses. The method blanks were free of target compound contamination above the reporting limit. Naphthalene was detected in one method blank below the practical quantitation limit (PQL). No qualifications are required because either 1) the investigative results were non-detect at limits higher than the blank detection, or 2) naphthalene was detected at a much higher concentration in the investigative samples.

The methanol blank RO-MB-02 was free of target compound contamination above the reporting limit.

4. Surrogate Results

The surrogate recovery results were within the laboratory-established quality control (QC) limits.

5. Laboratory Control Sample (LCS) Results

The LCS percent recoveries were within laboratory-established QC limits except as follows. For the LCS associated with analysis date April 16, 2011, 4-methyl-2-pentanone, acetone and 1,2-dibromoethane were outside the QC limits. Because these compounds were not reported for the investigative samples on April 17 or April 19, 2011 (the samples were re-analyzed for dilution issues), no qualification of the reported data is needed.

For the LCS associated with analysis date April 17, 2011, 1,2,4-trichlorobenzene was outside the QC limits due to a sporadic marginal exceedance. For analyses of 1,2,4-trichlorobenzene dated April 17, 2011, detected results were flagged "J" as estimated and quantitation limits for non-detected results were flagged "UJ" as estimated.

For the LCS associated with analysis date April 19, 2011, hexachlorobutadiene was outside the QC limits. For analyses of hexachlorobutadiene dated April 19, 2011, quantitation limits for non-detected results were flagged "UJ" as estimated.

6. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

The MS/MSD results associated with all of the samples analyzed on April 17, 2011 had recoveries for 4-methyl-2-pentanone that exceeded QC limits. Quantitation limits for non-detected results for 4-methyl-2-pentanone in samples analyzed on April 17, 2011 were flagged "UJ" as estimated.

A second MS/MSD analyzed on April 17, 2011 had recoveries outside QC limits for the following parameters:

1,1,2,2-Tetrachloroethane	4-Chlorotoluene	o-Xylene
1,2,3-Trichlorobenzene	Ethylbenzene	p-Isopropyltoluene
1,2,3-Trichloropropane	Hexachlorobutadiene	sec-Butylbenzene
1,2,4-Trichlorobenzene	Isopropylbenzene	Toluene
1,2,4-Trimethylbenzene	m,p-Xylene	trans-1,4-Dichloro-2-butene
1,2-Dichlorobenzene	n-Butylbenzene	Xylenes, total
1,3,5-Trimethylbenzene	n-Propylbenzene	
2-Chlorotoluene	Naphthalene	

For samples (except methanol blank RO-MB-02) analyzed on April 17, 2011, detected results for these compounds were flagged "J" as estimated and quantitation limits for non-detected results for these compounds were flagged "UJ" as estimated.

Percent recoveries and RPDs for the MS/MSD samples associated with the analysis of samples RO-S-VS-23 and RO-S-VS-26 on April 19, 2011 were within laboratory QC limits.

7. Field Duplicate Results

A field duplicate sample was collected at the frequency specified in the QAPP. Sample RO-FD-VS-27 is a duplicate of sample RO-S-VS-27. Field duplicate sample RO-FD-VS-27 showed poor correlation with the investigative sample. The poor correlation was attributed to the heterogeneous nature of the samples. However, because the highest

reported detections for each compound were well below the evaluation criteria, no additional measures were required.

8. Overall Assessment

The VOC data are acceptable for use as qualified based on the information received.

PCBS BY SW-846 METHOD 8082

1. Samples

The following table summarizes the samples for which this data validation was conducted.

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
RO-S-VS-21	1104422-01	Soil	4/15/2011	4/18/2011	4/18/2011
RO-S-VS-22	1104422-02	Soil	4/15/2011	4/18/2011	4/18/2011
RO-S-VS-23	1104422-03	Soil	4/15/2011	4/18/2011	4/18/2011
RO-S-VS-24	1104422-04	Soil	4/15/2011	4/18/2011	4/18/2011
RO-S-VS-25	1104422-05	Soil	4/15/2011	4/18/2011	4/18/2011
RO-S-VS-26	1104422-06	Soil	4/15/2011	4/18/2011	4/18/2011
RO-S-VS-27	1104422-07	Soil	4/15/2011	4/18/2011	4/18/2011
RO-FD-VS-27	1104422-08	Soil	4/15/2011	4/18/2011	4/19/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

3. Blanks

The method blanks were free of target compound contamination above the reporting limit.

4. Surrogates

The surrogate recovery results were within the laboratory-established QC limits.

5. LCS Results

The LCS recoveries were within the laboratory-established QC limits.

6. MS and MSD Results

The MS/MSD associated with all of the PCB samples had recoveries for Aroclor 1016 and Aroclor 1260 that exceeded QC limits. Quantitation limits for non-detected results for Aroclor 1016 and Aroclor 1260 in all of the samples were flagged "UJ" as estimated.

7. Field Duplicate Results

Field duplicate samples for PCB analysis were collected at the frequency specified in the QAPP. Sample RO-FD-VS-27 is a duplicate of sample RO-S-VS-27. Field duplicate sample RO-FD-VS-27 showed good correlation with the investigative sample (within 30%).

8. Overall Assessment

The PCB data are acceptable for use as qualified based on the information received.

ARSENIC AND LEAD BY SW-846 METHOD 6020A

1. Samples

The following table summarizes the samples for which this data validation was conducted.

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
RO-S-VS-21	1104422-01	Soil	4/15/2011	4/18/2011	4/18/2011
RO-S-VS-22	1104422-02	Soil	4/15/2011	4/18/2011	4/18/2011
RO-S-VS-23	1104422-03	Soil	4/15/2011	4/19/2011	4/19-20/2011
RO-S-VS-24	1104422-04	Soil	4/15/2011	4/19/2011	4/19/2011
RO-S-VS-25	1104422-05	Soil	4/15/2011	4/18/2011	4/18/2011
RO-S-VS-26	1104422-06	Soil	4/15/2011	4/19/2011	4/19/2011
RO-S-VS-27	1104422-07	Soil	4/15/2011	4/18/2011	4/18/2011
RO-FD-VS-27	1104422-08	Soil	4/15/2011	4/19/2011	4/19/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 180 days from sample collection to analysis.

3. Blanks

The method blanks were free of target compound contamination above the reporting limit. Arsenic and lead were detected below the PQL in the method blank associated with samples analyzed on April 18, 2011. Lead was detected below the PQL in the method blank associated with samples analyzed on April 19, 2011. Because arsenic and lead were detected at higher concentrations in the samples, no qualification is required.

4. LCS Results

The LCS recoveries were within the laboratory-established QC limits.

5. MS and MSD Results

Lead recoveries for the MS/MSD samples analyzed on April 18, 2011 were outside laboratory QC limits. Arsenic recoveries for the MS/MSD samples analyzed on April 19, 2011 were outside laboratory QC limits. For samples analyzed on April 18, 2011 for lead, detected results were flagged "J" as estimated. For samples analyzed on April 19, 2011 for arsenic, detected results were flagged "J" as estimated.

6. Field Duplicate Results

Field duplicate samples for metals analysis were collected at the frequency specified in the QAPP. Sample RO-FD-VS-27 is a duplicate of sample RO-S-VS-27. Field duplicate sample RO-FD-VS-27 showed good correlation for arsenic and lead in the investigative sample.

7. Overall Assessment

The metals data are acceptable for use as qualified based on the information received.

DISCREPANCY FROM QAPP

The sample identification codes on the chain-of-custody (COC) for the field duplicate sample and methanol blank did not follow the field identification system provided in the QAPP. Notations were made on the COC, the laboratory was notified, and the sample identification codes were revised accordingly. No qualification of the data is needed. The Horizon Field Team Leader was informed of the sample identification code discrepancies so that corrective measures could be taken for future sampling events.

ATTACHMENT

ALS LABORATORY GROUP
RESULTS SUMMARY WITH QUALIFIERS

ALS Environmental

01-May-2011

Bill Davidson
Horizon Environmental
4771 50th Street
Grand Rapids, MI 49512

Re: **Reclamation Oil** Work Order: **1104422**

Dear Bill,

ALS Environmental received 9 samples on 15-Apr-2011 02:10 PM 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.

QC sample results for this data met 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 68.

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

Sincerely,

Joseph Ribar

Electronically approved by: Joseph Ribar

Joseph Ribar
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

Certificate No: IL100452

ALS Group USA, Corp

Date: 01-May-11

Client: Horizon Environmental
Project: Reclamation Oil
Work Order: **1104422**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1104422-01	RO-S-VS-21	Soil		4/15/2011	4/15/2011 14:10	☐
1104422-02	RO-S-VS-22	Soil		4/15/2011	4/15/2011 14:10	☐
1104422-03	RO-S-VS-23	Soil		4/15/2011	4/15/2011 14:10	☐
1104422-04	RO-S-VS-24	Soil		4/15/2011	4/15/2011 14:10	☐
1104422-05	RO-S-VS-25	Soil		4/15/2011	4/15/2011 14:10	☐
1104422-06	RO-S-VS-26	Soil		4/15/2011	4/15/2011 14:10	☐
1104422-07	RO-S-VS-27	Soil		4/15/2011	4/15/2011 14:10	☐
1104422-08	RO-FD-VS-27	Soil		4/15/2011	4/15/2011 14:10	☐
1104422-09	RO-MB-02	Soil		4/15/2011	4/15/2011 14:10	☐

Client: Horizon Environmental
Project: Reclamation Oil
Work Order: 1104422

Case Narrative

QC Summary

PCB's

Batch 32869, Method 8082, Sample 1104422-01B MS/MSD: "S" flags for aroclors 1016/1260 (out of range- high) on the MS and MSD in batch 32869 are due to sample matrix. The parent sample contained high levels of aroclor 1254 which caused the elevated recoveries. RPD's in range as were the recoveries on the LCS and LCSD.

Metals by ICP-MS

Batch 32876, Method 6020, Sample 1104427-13B MS/MSD: Lead recoveries were outside control limits in the MS and MSD due to sample matrix.

Volatile Organic Compounds

Batch R89078, Method 8260, Sample VLCSW1/VLCSDW1-110416: 4-Methyl-2-pentanone exceeded the upper control limits in the LCS/LCSD; however no hits were reported in any of this project's samples.

Batch R89078, Method 8260, Sample 1104361-04C: 4-Methyl-2-pentanone exceeded the upper control limits in the MS/MSD; however no hits were reported in any of this project's samples.

Batch R89079, Method 8260, Sample VLCSW1-110417: 1,2,4-Trichlorobenzene recovery exceeded the upper control limit due to a sporadic marginal exceedance. Recoveries in the LCSD were within control limits exhibiting good instrument accuracy

Batch R89079, Method 8260, Sample 1104422-01A MS/MSD: Compound and surrogate recoveries were outside control limits due to matrix interference.

ALS Group USA, Corp

Date: 01-May-11

Client: Horizon Environmental
Project: Reclamation Oil
WorkOrder: **1104422**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	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 detected below quantitation 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

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
TDL	Target Detection Limit

Units Reported	Description
% of sample	Percent of Sample
µg/Kg	Micrograms per Kilogram
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-21
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **4/18/2011**	Analyst: **JD**
Aroclor 1016	ND	UJ	46	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1221	ND		46	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1232	ND		46	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1242	ND		46	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1248	ND		46	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1254	**2,000**		**46**	**µg/Kg-dry**	1	4/18/2011 03:10 PM
Aroclor 1260	ND	UJ	46	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1262	ND		46	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1268	ND		46	µg/Kg-dry	1	4/18/2011 03:10 PM
Surr: Decachlorobiphenyl	*73.1*		*40-140*	*%REC*	1	4/18/2011 03:10 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **4/18/2011**	Analyst: **CES**
Arsenic	**1.1**		**0.16**	**mg/Kg-dry**	1	4/18/2011 08:37 PM
Lead	**5.2**	J	**0.16**	**mg/Kg-dry**	1	4/18/2011 08:37 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
1,1,1,2-Tetrachloroethane	ND		1,800	µg/Kg-dry	1000	4/17/2011 02:54 AM
1,1,1-Trichloroethane	**2,100**		**1,200**	**µg/Kg-dry**	1000	4/17/2011 02:54 AM
1,1,2,2-Tetrachloroethane	ND	UJ	1,200	µg/Kg-dry	1000	4/17/2011 02:54 AM
1,1,2-Trichloroethane	ND		610	µg/Kg-dry	1000	4/17/2011 02:54 AM
1,1,2-Trichlorotrifluoroethane	ND		1,200	µg/Kg-dry	1000	4/17/2011 02:54 AM
1,1-Dichloroethane	ND		1,200	µg/Kg-dry	1000	4/17/2011 02:54 AM
1,1-Dichloroethene	ND		610	µg/Kg-dry	1000	4/17/2011 02:54 AM
1,1-Dichloropropene	ND		1,200	µg/Kg-dry	1000	4/17/2011 02:54 AM
1,2,3-Trichlorobenzene	ND	UJ	2,400	µg/Kg-dry	1000	4/17/2011 02:54 AM
1,2,3-Trichloropropane	ND	UJ	2,400	µg/Kg-dry	1000	4/17/2011 02:54 AM
1,2,4-Trichlorobenzene	**1,400**	J	**1,200**	**µg/Kg-dry**	1000	4/17/2011 02:54 AM
1,2,4-Trimethylbenzene	**400,000**	J	**12,000**	**µg/Kg-dry**	10000	4/17/2011 01:23 PM
1,2-Dibromo-3-chloropropane	ND		1,200	µg/Kg-dry	1000	4/17/2011 02:54 AM
1,2-Dibromoethane	ND		1,800	µg/Kg-dry	1000	4/17/2011 02:54 AM
1,2-Dichlorobenzene	**10,000**	J	**1,200**	**µg/Kg-dry**	1000	4/17/2011 02:54 AM
1,2-Dichloroethane	ND		610	µg/Kg-dry	1000	4/17/2011 02:54 AM
1,2-Dichloropropane	ND		610	µg/Kg-dry	1000	4/17/2011 02:54 AM
1,3,5-Trimethylbenzene	**120,000**	J	**12,000**	**µg/Kg-dry**	10000	4/17/2011 01:23 PM
1,3-Dichlorobenzene	ND		610	µg/Kg-dry	1000	4/17/2011 02:54 AM
1,3-Dichloropropane	ND		610	µg/Kg-dry	1000	4/17/2011 02:54 AM
1,4-Dichlorobenzene	ND		610	µg/Kg-dry	1000	4/17/2011 02:54 AM
2,2-Dichloropropane	ND		610	µg/Kg-dry	1000	4/17/2011 02:54 AM
2-Butanone	ND		9,100	µg/Kg-dry	1000	4/17/2011 02:54 AM
2-Chlorotoluene	ND	UJ	610	µg/Kg-dry	1000	4/17/2011 02:54 AM

KB 5/2/11

KB 5/2/11

KB 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-21
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Hexanone	ND		6,100	µg/Kg-dry	1000	4/17/2011 02:54 AM
2-Methylnaphthalene	**55,000**		**3,700**	**µg/Kg-dry**	1000	4/17/2011 02:54 AM
4-Chlorotoluene	ND	UJ	2,400	µg/Kg-dry	1000	4/17/2011 02:54 AM
4-Methyl-2-pentanone	ND	UJ	6,100	µg/Kg-dry	1000	4/17/2011 02:54 AM
Acetone	ND		5,500	µg/Kg-dry	1000	4/17/2011 02:54 AM
Acrylonitrile	ND		1,200	µg/Kg-dry	1000	4/17/2011 02:54 AM
Benzene	ND		610	µg/Kg-dry	1000	4/17/2011 02:54 AM
Bromobenzene	ND		1,800	µg/Kg-dry	1000	4/17/2011 02:54 AM
Bromochloromethane	ND		1,800	µg/Kg-dry	1000	4/17/2011 02:54 AM
Bromodichloromethane	ND		1,800	µg/Kg-dry	1000	4/17/2011 02:54 AM
Bromoform	ND		1,200	µg/Kg-dry	1000	4/17/2011 02:54 AM
Carbon disulfide	ND		1,800	µg/Kg-dry	1000	4/17/2011 02:54 AM
Carbon tetrachloride	ND		1,200	µg/Kg-dry	1000	4/17/2011 02:54 AM
Chlorobenzene	ND		1,800	µg/Kg-dry	1000	4/17/2011 02:54 AM
Chloroethane	ND		3,700	µg/Kg-dry	1000	4/17/2011 02:54 AM
Chloroform	ND		1,200	µg/Kg-dry	1000	4/17/2011 02:54 AM
Chloromethane	ND		3,700	µg/Kg-dry	1000	4/17/2011 02:54 AM
cis-1,2-Dichloroethene	ND		2,400	µg/Kg-dry	1000	4/17/2011 02:54 AM
cis-1,3-Dichloropropene	ND		1,200	µg/Kg-dry	1000	4/17/2011 02:54 AM
Dibromochloromethane	ND		2,400	µg/Kg-dry	1000	4/17/2011 02:54 AM
Dibromomethane	ND		2,400	µg/Kg-dry	1000	4/17/2011 02:54 AM
Dichlorodifluoromethane	ND		1,200	µg/Kg-dry	1000	4/17/2011 02:54 AM
Diethyl ether	ND		1,200	µg/Kg-dry	1000	4/17/2011 02:54 AM
Diisopropyl ether	ND		6,100	µg/Kg-dry	1000	4/17/2011 02:54 AM
Ethyl tert butyl ether	ND		1,200	µg/Kg-dry	1000	4/17/2011 02:54 AM
Ethylbenzene	**210,000**	J	**24,000**	**µg/Kg-dry**	10000	4/17/2011 01:23 PM
Heptane	**48,000**		**1,200**	**µg/Kg-dry**	1000	4/17/2011 02:54 AM
Hexachlorobutadiene	ND	UJ	1,200	µg/Kg-dry	1000	4/17/2011 02:54 AM
Hexachloroethane	ND		1,200	µg/Kg-dry	1000	4/17/2011 02:54 AM
Hexane	**89,000**		**37,000**	**µg/Kg-dry**	10000	4/17/2011 01:23 PM
Iodomethane	ND		3,000	µg/Kg-dry	1000	4/17/2011 02:54 AM
Isopropylbenzene	**26,000**	J	**1,200**	**µg/Kg-dry**	1000	4/17/2011 02:54 AM
m,p-Xylene	**870,000**	J	**24,000**	**µg/Kg-dry**	10000	4/17/2011 01:23 PM
Methyl tert-butyl ether	ND		1,800	µg/Kg-dry	1000	4/17/2011 02:54 AM
Methylene chloride	ND		1,200	µg/Kg-dry	1000	4/17/2011 02:54 AM
n-Butylbenzene	ND	UJ	610	µg/Kg-dry	1000	4/17/2011 02:54 AM
n-Propylbenzene	**72,000**	J	**2,400**	**µg/Kg-dry**	1000	4/17/2011 02:54 AM
Naphthalene	**100,000**	J	**2,400**	**µg/Kg-dry**	1000	4/17/2011 02:54 AM
o-Xylene	**310,000**	J	**12,000**	**µg/Kg-dry**	10000	4/17/2011 01:23 PM
p-Isopropyltoluene	**200,000**	J	**43,000**	**µg/Kg-dry**	10000	4/17/2011 01:23 PM

KH 5/10/11

RH 5/10/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-21
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	**21,000**	J	**1,200**	**µg/Kg-dry**	1000	4/17/2011 02:54 AM
Styrene	ND		1,800	µg/Kg-dry	1000	4/17/2011 02:54 AM
tert-Amyl methyl ether	ND		1,200	µg/Kg-dry	1000	4/17/2011 02:54 AM
tert-Butyl alcohol	ND		6,100	µg/Kg-dry	1000	4/17/2011 02:54 AM
tert-Butylbenzene	ND		1,800	µg/Kg-dry	1000	4/17/2011 02:54 AM
Tetrachloroethene	ND		610	µg/Kg-dry	1000	4/17/2011 02:54 AM
Tetrahydrofuran	ND		1,800	µg/Kg-dry	1000	4/17/2011 02:54 AM
Toluene	**210,000**	J	**18,000**	**µg/Kg-dry**	10000	4/17/2011 01:23 PM
trans-1,2-Dichloroethene	ND		1,200	µg/Kg-dry	1000	4/17/2011 02:54 AM
trans-1,3-Dichloropropene	ND		1,800	µg/Kg-dry	1000	4/17/2011 02:54 AM
trans-1,4-Dichloro-2-butene	ND	UJ	4,300	µg/Kg-dry	1000	4/17/2011 02:54 AM
Trichloroethene	ND		610	µg/Kg-dry	1000	4/17/2011 02:54 AM
Trichlorofluoromethane	ND		1,200	µg/Kg-dry	1000	4/17/2011 02:54 AM
Vinyl acetate	ND		18,000	µg/Kg-dry	1000	4/17/2011 02:54 AM
Vinyl chloride	ND		490	µg/Kg-dry	1000	4/17/2011 02:54 AM
1,2-Dichloroethene, Total	ND		3,000	µg/Kg-dry	1000	4/17/2011 02:54 AM
1,3-Dichloropropene, Total	ND		1,200	µg/Kg-dry	1000	4/17/2011 02:54 AM
Xylenes, Total	**1,200,000**	J	**37,000**	**µg/Kg-dry**	10000	4/17/2011 01:23 PM
Surr: 1,2-Dichloroethane-d4	*100*		*70-120*	*%REC*	10000	4/17/2011 01:23 PM
Surr: 1,2-Dichloroethane-d4	*103*		*70-120*	*%REC*	1000	4/17/2011 02:54 AM
Surr: 4-Bromofluorobenzene	*102*		*75-120*	*%REC*	10000	4/17/2011 01:23 PM
Surr: 4-Bromofluorobenzene	*119*		*75-120*	*%REC*	1000	4/17/2011 02:54 AM
Surr: Dibromofluoromethane	*96.0*		*85-115*	*%REC*	10000	4/17/2011 01:23 PM
Surr: Dibromofluoromethane	*101*		*85-115*	*%REC*	1000	4/17/2011 02:54 AM
Surr: Toluene-d8	*99.9*		*85-115*	*%REC*	1000	4/17/2011 02:54 AM
Surr: Toluene-d8	*97.8*		*85-115*	*%REC*	10000	4/17/2011 01:23 PM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**18**		**0.050**	**% of sample**	1	4/18/2011 08:00 AM

KB 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-22
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **4/18/2011**	Analyst: **JD**
Aroclor 1016	ND	UJ	49	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1221	ND		49	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1232	ND		49	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1242	ND		49	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1248	ND		49	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1254	**1,200**		**49**	**µg/Kg-dry**	1	4/18/2011 03:10 PM
Aroclor 1260	ND	UJ	49	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1262	ND		49	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1268	ND		49	µg/Kg-dry	1	4/18/2011 03:10 PM
Surr: Decachlorobiphenyl	*75.1*		*40-140*	*%REC*	1	4/18/2011 03:10 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **4/18/2011**	Analyst: **CES**
Arsenic	**0.96**		**0.14**	**mg/Kg-dry**	1	4/18/2011 08:43 PM
Lead	**2.6**	J	**0.14**	**mg/Kg-dry**	1	4/18/2011 08:43 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **BG**
1,1,1,2-Tetrachloroethane	ND		1,900	µg/Kg-dry	1000	4/17/2011 06:04 PM
1,1,1-Trichloroethane	ND		1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
1,1,2,2-Tetrachloroethane	ND	UJ	1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
1,1,2-Trichloroethane	ND		640	µg/Kg-dry	1000	4/17/2011 06:04 PM
1,1,2-Trichlorotrifluoroethane	ND		1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
1,1-Dichloroethane	ND		1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
1,1-Dichloroethene	ND		640	µg/Kg-dry	1000	4/17/2011 06:04 PM
1,1-Dichloropropene	ND		1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
1,2,3-Trichlorobenzene	ND	UJ	2,500	µg/Kg-dry	1000	4/17/2011 06:04 PM
1,2,3-Trichloropropane	ND	UJ	2,500	µg/Kg-dry	1000	4/17/2011 06:04 PM
1,2,4-Trichlorobenzene	ND	UJ	1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
1,2,4-Trimethylbenzene	**120,000**	J	**13,000**	**µg/Kg-dry**	10000	4/17/2011 01:48 PM
1,2-Dibromo-3-chloropropane	ND		1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
1,2-Dibromoethane	ND		1,900	µg/Kg-dry	1000	4/17/2011 06:04 PM
1,2-Dichlorobenzene	**3,600**	J	**1,300**	**µg/Kg-dry**	1000	4/17/2011 06:04 PM
1,2-Dichloroethane	ND		640	µg/Kg-dry	1000	4/17/2011 06:04 PM
1,2-Dichloropropane	ND		640	µg/Kg-dry	1000	4/17/2011 06:04 PM
1,3,5-Trimethylbenzene	**34,000**	J	**1,300**	**µg/Kg-dry**	1000	4/17/2011 06:04 PM
1,3-Dichlorobenzene	ND		640	µg/Kg-dry	1000	4/17/2011 06:04 PM
1,3-Dichloropropane	ND		640	µg/Kg-dry	1000	4/17/2011 06:04 PM
1,4-Dichlorobenzene	ND		640	µg/Kg-dry	1000	4/17/2011 06:04 PM
2,2-Dichloropropane	ND		640	µg/Kg-dry	1000	4/17/2011 06:04 PM
2-Butanone	ND		9,600	µg/Kg-dry	1000	4/17/2011 06:04 PM
2-Chlorotoluene	ND	UJ	640	µg/Kg-dry	1000	4/17/2011 06:04 PM

KA 5/2/11

KA 5/2/11

KA 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-22
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Hexanone	ND		6,400	µg/Kg-dry	1000	4/17/2011 06:04 PM
2-Methylnaphthalene	**40,000**		**3,800**	**µg/Kg-dry**	1000	4/17/2011 06:04 PM
4-Chlorotoluene	ND	UJ	2,500	µg/Kg-dry	1000	4/17/2011 06:04 PM
4-Methyl-2-pentanone	ND	UJ	6,400	µg/Kg-dry	1000	4/17/2011 06:04 PM
Acetone	ND		5,700	µg/Kg-dry	1000	4/17/2011 06:04 PM
Acrylonitrile	ND		1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
Benzene	ND		640	µg/Kg-dry	1000	4/17/2011 06:04 PM
Bromobenzene	ND		1,900	µg/Kg-dry	1000	4/17/2011 06:04 PM
Bromochloromethane	ND		1,900	µg/Kg-dry	1000	4/17/2011 06:04 PM
Bromodichloromethane	ND		1,900	µg/Kg-dry	1000	4/17/2011 06:04 PM
Bromoform	ND		1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
Carbon disulfide	ND		1,900	µg/Kg-dry	1000	4/17/2011 06:04 PM
Carbon tetrachloride	ND		1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
Chlorobenzene	ND		1,900	µg/Kg-dry	1000	4/17/2011 06:04 PM
Chloroethane	ND		3,800	µg/Kg-dry	1000	4/17/2011 06:04 PM
Chloroform	ND		1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
Chloromethane	ND		3,800	µg/Kg-dry	1000	4/17/2011 06:04 PM
cis-1,2-Dichloroethene	ND		2,500	µg/Kg-dry	1000	4/17/2011 06:04 PM
cis-1,3-Dichloropropene	ND		1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
Dibromochloromethane	ND		2,500	µg/Kg-dry	1000	4/17/2011 06:04 PM
Dibromomethane	ND		2,500	µg/Kg-dry	1000	4/17/2011 06:04 PM
Dichlorodifluoromethane	ND		1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
Diethyl ether	ND		1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
Diisopropyl ether	ND		6,400	µg/Kg-dry	1000	4/17/2011 06:04 PM
Ethyl tert butyl ether	ND		1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
Ethylbenzene	**60,000**	J	**2,500**	**µg/Kg-dry**	1000	4/17/2011 06:04 PM
Heptane	**6,900**		**1,300**	**µg/Kg-dry**	1000	4/17/2011 06:04 PM
Hexachlorobutadiene	ND	UJ	1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
Hexachloroethane	ND		1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
Hexane	**31,000**		**3,800**	**µg/Kg-dry**	1000	4/17/2011 06:04 PM
Iodomethane	ND		3,200	µg/Kg-dry	1000	4/17/2011 06:04 PM
Isopropylbenzene	**7,900**	J	**1,300**	**µg/Kg-dry**	1000	4/17/2011 06:04 PM
m,p-Xylene	**280,000**	J	**25,000**	**µg/Kg-dry**	10000	4/17/2011 01:48 PM
Methyl tert-butyl ether	ND		1,900	µg/Kg-dry	1000	4/17/2011 06:04 PM
Methylene chloride	ND		1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
n-Butylbenzene	**17,000**	J	**640**	**µg/Kg-dry**	1000	4/17/2011 06:04 PM
n-Propylbenzene	**19,000**	J	**2,500**	**µg/Kg-dry**	1000	4/17/2011 06:04 PM
Naphthalene	**53,000**	J	**2,500**	**µg/Kg-dry**	1000	4/17/2011 06:04 PM
o-Xylene	**100,000**	J	**1,300**	**µg/Kg-dry**	1000	4/17/2011 06:04 PM
p-Isopropyltoluene	**52,000**	J	**4,500**	**µg/Kg-dry**	1000	4/17/2011 06:04 PM

KH 5/20/11

KH 5/20/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-22
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	**5,700**	J	**1,300**	**µg/Kg-dry**	1000	4/17/2011 06:04 PM
Styrene	ND		1,900	µg/Kg-dry	1000	4/17/2011 06:04 PM
tert-Amyl methyl ether	ND		1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
tert-Butyl alcohol	ND		6,400	µg/Kg-dry	1000	4/17/2011 06:04 PM
tert-Butylbenzene	ND		1,900	µg/Kg-dry	1000	4/17/2011 06:04 PM
Tetrachloroethene	ND		640	µg/Kg-dry	1000	4/17/2011 06:04 PM
Tetrahydrofuran	ND		1,900	µg/Kg-dry	1000	4/17/2011 06:04 PM
Toluene	**18,000**	J	**1,900**	**µg/Kg-dry**	1000	4/17/2011 06:04 PM
trans-1,2-Dichloroethene	ND		1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
trans-1,3-Dichloropropene	ND		1,900	µg/Kg-dry	1000	4/17/2011 06:04 PM
trans-1,4-Dichloro-2-butene	ND	UJ	4,500	µg/Kg-dry	1000	4/17/2011 06:04 PM
Trichloroethene	ND		640	µg/Kg-dry	1000	4/17/2011 06:04 PM
Trichlorofluoromethane	ND		1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
Vinyl acetate	ND		19,000	µg/Kg-dry	1000	4/17/2011 06:04 PM
Vinyl chloride	ND		510	µg/Kg-dry	1000	4/17/2011 06:04 PM
1,2-Dichloroethene, Total	ND		3,200	µg/Kg-dry	1000	4/17/2011 06:04 PM
1,3-Dichloropropene, Total	ND		1,300	µg/Kg-dry	1000	4/17/2011 06:04 PM
Xylenes, Total	**380,000**	J	**38,000**	**µg/Kg-dry**	10000	4/17/2011 01:48 PM
Surr: 1,2-Dichloroethane-d4	*99.9*		*70-120*	*%REC*	10000	4/17/2011 01:48 PM
Surr: 1,2-Dichloroethane-d4	*101*		*70-120*	*%REC*	1000	4/17/2011 06:04 PM
Surr: 4-Bromofluorobenzene	*100*		*75-120*	*%REC*	10000	4/17/2011 01:48 PM
Surr: 4-Bromofluorobenzene	*106*		*75-120*	*%REC*	1000	4/17/2011 06:04 PM
Surr: Dibromofluoromethane	*98.6*		*85-115*	*%REC*	10000	4/17/2011 01:48 PM
Surr: Dibromofluoromethane	*94.0*		*85-115*	*%REC*	1000	4/17/2011 06:04 PM
Surr: Toluene-d8	*93.5*		*85-115*	*%REC*	1000	4/17/2011 06:04 PM
Surr: Toluene-d8	*97.8*		*85-115*	*%REC*	10000	4/17/2011 01:48 PM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**22**		**0.050**	**% of sample**	1	4/18/2011 08:00 AM

RA 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-23
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **4/18/2011**	Analyst: **JD**
Aroclor 1016	ND	UJ	48	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1221	ND		48	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1232	ND		48	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1242	ND		48	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1248	ND		48	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1254	**260**		**48**	**µg/Kg-dry**	1	4/18/2011 03:10 PM
Aroclor 1260	ND	UJ	48	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1262	ND		48	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1268	ND		48	µg/Kg-dry	1	4/18/2011 03:10 PM
Surr: Decachlorobiphenyl	*84.1*		*40-140*	*%REC*	1	4/18/2011 03:10 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **4/19/2011**	Analyst: **CES**
Arsenic	**2.9**	J	**0.25**	**mg/Kg-dry**	1	4/19/2011 04:56 PM
Lead	**380**		**0.25**	**mg/Kg-dry**	10	4/20/2011 01:11 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **BG**
1,1,1,2-Tetrachloroethane	ND		180	µg/Kg-dry	100	4/19/2011 06:12 PM
1,1,1-Trichloroethane	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
1,1,2,2-Tetrachloroethane	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
1,1,2-Trichloroethane	ND		61	µg/Kg-dry	100	4/19/2011 06:12 PM
1,1,2-Trichlorotrifluoroethane	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
1,1-Dichloroethane	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
1,1-Dichloroethene	ND		61	µg/Kg-dry	100	4/19/2011 06:12 PM
1,1-Dichloropropene	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
1,2,3-Trichlorobenzene	ND		250	µg/Kg-dry	100	4/19/2011 06:12 PM
1,2,3-Trichloropropane	ND		250	µg/Kg-dry	100	4/19/2011 06:12 PM
1,2,4-Trichlorobenzene	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
1,2,4-Trimethylbenzene	**340**		**120**	**µg/Kg-dry**	100	4/19/2011 06:12 PM
1,2-Dibromo-3-chloropropane	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
1,2-Dibromoethane	ND		180	µg/Kg-dry	100	4/19/2011 06:12 PM
1,2-Dichlorobenzene	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
1,2-Dichloroethane	ND		61	µg/Kg-dry	100	4/19/2011 06:12 PM
1,2-Dichloropropane	ND		61	µg/Kg-dry	100	4/19/2011 06:12 PM
1,3,5-Trimethylbenzene	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
1,3-Dichlorobenzene	ND		61	µg/Kg-dry	100	4/19/2011 06:12 PM
1,3-Dichloropropane	ND		61	µg/Kg-dry	100	4/19/2011 06:12 PM
1,4-Dichlorobenzene	ND		61	µg/Kg-dry	100	4/19/2011 06:12 PM
2,2-Dichloropropane	ND		61	µg/Kg-dry	100	4/19/2011 06:12 PM
2-Butanone	ND		920	µg/Kg-dry	100	4/19/2011 06:12 PM
2-Chlorotoluene	ND		61	µg/Kg-dry	100	4/19/2011 06:12 PM

KH 5/2/11

KH 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-23
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Hexanone	ND		610	µg/Kg-dry	100	4/19/2011 06:12 PM
2-Methylnaphthalene	ND		370	µg/Kg-dry	100	4/19/2011 06:12 PM
4-Chlorotoluene	ND		250	µg/Kg-dry	100	4/19/2011 06:12 PM
4-Methyl-2-pentanone	ND		610	µg/Kg-dry	100	4/19/2011 06:12 PM
Acetone	ND		550	µg/Kg-dry	100	4/19/2011 06:12 PM
Acrylonitrile	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
Benzene	ND		61	µg/Kg-dry	100	4/19/2011 06:12 PM
Bromobenzene	ND		180	µg/Kg-dry	100	4/19/2011 06:12 PM
Bromochloromethane	ND		180	µg/Kg-dry	100	4/19/2011 06:12 PM
Bromodichloromethane	ND		180	µg/Kg-dry	100	4/19/2011 06:12 PM
Bromoform	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
Carbon disulfide	ND		180	µg/Kg-dry	100	4/19/2011 06:12 PM
Carbon tetrachloride	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
Chlorobenzene	ND		180	µg/Kg-dry	100	4/19/2011 06:12 PM
Chloroethane	ND		370	µg/Kg-dry	100	4/19/2011 06:12 PM
Chloroform	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
Chloromethane	ND		370	µg/Kg-dry	100	4/19/2011 06:12 PM
cis-1,2-Dichloroethene	ND		250	µg/Kg-dry	100	4/19/2011 06:12 PM
cis-1,3-Dichloropropene	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
Dibromochloromethane	ND		250	µg/Kg-dry	100	4/19/2011 06:12 PM
Dibromomethane	ND		250	µg/Kg-dry	100	4/19/2011 06:12 PM
Dichlorodifluoromethane	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
Diethyl ether	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
Diisopropyl ether	ND		610	µg/Kg-dry	100	4/19/2011 06:12 PM
Ethyl tert butyl ether	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
Ethylbenzene	**ND**		**250**	**µg/Kg-dry**	100	4/19/2011 06:12 PM
Heptane	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
Hexachlorobutadiene	ND	UJ	120	µg/Kg-dry	100	4/19/2011 06:12 PM
Hexachloroethane	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
Hexane	ND		370	µg/Kg-dry	100	4/19/2011 06:12 PM
Iodomethane	ND		310	µg/Kg-dry	100	4/19/2011 06:12 PM
Isopropylbenzene	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
m,p-Xylene	**610**		**250**	**µg/Kg-dry**	100	4/19/2011 06:12 PM
Methyl tert-butyl ether	ND		180	µg/Kg-dry	100	4/19/2011 06:12 PM
Methylene chloride	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
n-Butylbenzene	ND		61	µg/Kg-dry	100	4/19/2011 06:12 PM
n-Propylbenzene	ND		250	µg/Kg-dry	100	4/19/2011 06:12 PM
Naphthalene	ND		250	µg/Kg-dry	100	4/19/2011 06:12 PM
o-Xylene	**150**		**120**	**µg/Kg-dry**	100	4/19/2011 06:12 PM
p-Isopropyltoluene	**260**		**120**	**µg/Kg-dry**	100	4/19/2011 06:12 PM

RH 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-23
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
Styrene	ND		180	µg/Kg-dry	100	4/19/2011 06:12 PM
tert-Amyl methyl ether	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
tert-Butyl alcohol	ND		610	µg/Kg-dry	100	4/19/2011 06:12 PM
tert-Butylbenzene	ND		180	µg/Kg-dry	100	4/19/2011 06:12 PM
Tetrachloroethene	ND		61	µg/Kg-dry	100	4/19/2011 06:12 PM
Tetrahydrofuran	ND		180	µg/Kg-dry	100	4/19/2011 06:12 PM
Toluene	ND		180	µg/Kg-dry	100	4/19/2011 06:12 PM
trans-1,2-Dichloroethene	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
trans-1,3-Dichloropropene	ND		180	µg/Kg-dry	100	4/19/2011 06:12 PM
trans-1,4-Dichloro-2-butene	ND		430	µg/Kg-dry	100	4/19/2011 06:12 PM
Trichloroethene	ND		61	µg/Kg-dry	100	4/19/2011 06:12 PM
Trichlorofluoromethane	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
Vinyl acetate	ND		1,800	µg/Kg-dry	100	4/19/2011 06:12 PM
Vinyl chloride	ND		49	µg/Kg-dry	100	4/19/2011 06:12 PM
1,2-Dichloroethene, Total	ND		310	µg/Kg-dry	100	4/19/2011 06:12 PM
1,3-Dichloropropene, Total	ND		120	µg/Kg-dry	100	4/19/2011 06:12 PM
Xylenes, Total	**760**		**370**	**µg/Kg-dry**	100	4/19/2011 06:12 PM
Surr: 1,2-Dichloroethane-d4	*103*		*70-120*	*%REC*	100	4/19/2011 06:12 PM
Surr: 4-Bromofluorobenzene	*102*		*75-120*	*%REC*	100	4/19/2011 06:12 PM
Surr: Dibromofluoromethane	*96.9*		*85-115*	*%REC*	100	4/19/2011 06:12 PM
Surr: Toluene-d8	*99.0*		*85-115*	*%REC*	100	4/19/2011 06:12 PM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**18**		**0.050**	**% of sample**	1	4/18/2011 08:00 AM

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-24
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **4/18/2011**	Analyst: **JD**
Aroclor 1016	ND	UJ	47	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1221	ND		47	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1232	ND		47	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1242	ND		47	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1248	ND		47	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1254	**120**		**47**	**µg/Kg-dry**	1	4/18/2011 03:10 PM
Aroclor 1260	ND	UJ	47	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1262	ND		47	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1268	ND		47	µg/Kg-dry	1	4/18/2011 03:10 PM
Surr: Decachlorobiphenyl	*80.1*		*40-140*	*%REC*	1	4/18/2011 03:10 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **4/19/2011**	Analyst: **CES**
Arsenic	**1.7**	J	**0.22**	**mg/Kg-dry**	1	4/19/2011 05:02 PM
Lead	**3.9**		**0.022**	**mg/Kg-dry**	1	4/19/2011 05:02 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
1,1,1,2-Tetrachloroethane	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:15 AM
1,1,1-Trichloroethane	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
1,1,2,2-Tetrachloroethane	ND	UJ	1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
1,1,2-Trichloroethane	ND		610	µg/Kg-dry	1000	4/17/2011 04:15 AM
1,1,2-Trichlorotrifluoroethane	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
1,1-Dichloroethane	**ND**		**1,200**	**µg/Kg-dry**	1000	4/17/2011 04:15 AM
1,1-Dichloroethene	ND		610	µg/Kg-dry	1000	4/17/2011 04:15 AM
1,1-Dichloropropene	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
1,2,3-Trichlorobenzene	ND	UJ	2,400	µg/Kg-dry	1000	4/17/2011 04:15 AM
1,2,3-Trichloropropane	ND	UJ	2,400	µg/Kg-dry	1000	4/17/2011 04:15 AM
1,2,4-Trichlorobenzene	ND	UJ	1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
1,2,4-Trimethylbenzene	**94,000**	J	**12,000**	**µg/Kg-dry**	10000	4/17/2011 12:06 PM
1,2-Dibromo-3-chloropropane	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
1,2-Dibromoethane	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:15 AM
1,2-Dichlorobenzene	ND	UJ	1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
1,2-Dichloroethane	ND		610	µg/Kg-dry	1000	4/17/2011 04:15 AM
1,2-Dichloropropane	ND		610	µg/Kg-dry	1000	4/17/2011 04:15 AM
1,3,5-Trimethylbenzene	**44,000**	J	**1,200**	**µg/Kg-dry**	1000	4/17/2011 04:15 AM
1,3-Dichlorobenzene	ND		610	µg/Kg-dry	1000	4/17/2011 04:15 AM
1,3-Dichloropropane	ND		610	µg/Kg-dry	1000	4/17/2011 04:15 AM
1,4-Dichlorobenzene	ND		610	µg/Kg-dry	1000	4/17/2011 04:15 AM
2,2-Dichloropropane	ND		610	µg/Kg-dry	1000	4/17/2011 04:15 AM
2-Butanone	ND		9,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
2-Chlorotoluene	ND	UJ	610	µg/Kg-dry	1000	4/17/2011 04:15 AM

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RAB 5/2/11

RAB 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-24
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Hexanone	ND		6,100	µg/Kg-dry	1000	4/17/2011 04:15 AM
2-Methylnaphthalene	**29,000**		**3,700**	**µg/Kg-dry**	1000	4/17/2011 04:15 AM
4-Chlorotoluene	ND	UJ	2,400	µg/Kg-dry	1000	4/17/2011 04:15 AM
4-Methyl-2-pentanone	ND	UJ	6,100	µg/Kg-dry	1000	4/17/2011 04:15 AM
Acetone	ND		5,500	µg/Kg-dry	1000	4/17/2011 04:15 AM
Acrylonitrile	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
Benzene	**3,500**		**610**	**µg/Kg-dry**	1000	4/17/2011 04:15 AM
Bromobenzene	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:15 AM
Bromochloromethane	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:15 AM
Bromodichloromethane	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:15 AM
Bromoform	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
Carbon disulfide	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:15 AM
Carbon tetrachloride	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
Chlorobenzene	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:15 AM
Chloroethane	ND		3,700	µg/Kg-dry	1000	4/17/2011 04:15 AM
Chloroform	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
Chloromethane	ND		3,700	µg/Kg-dry	1000	4/17/2011 04:15 AM
cis-1,2-Dichloroethene	ND		2,400	µg/Kg-dry	1000	4/17/2011 04:15 AM
cis-1,3-Dichloropropene	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
Dibromochloromethane	ND		2,400	µg/Kg-dry	1000	4/17/2011 04:15 AM
Dibromomethane	ND		2,400	µg/Kg-dry	1000	4/17/2011 04:15 AM
Dichlorodifluoromethane	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
Diethyl ether	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
Diisopropyl ether	ND		6,100	µg/Kg-dry	1000	4/17/2011 04:15 AM
Ethyl tert butyl ether	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
Ethylbenzene	**99,000**	J	**2,400**	**µg/Kg-dry**	1000	4/17/2011 04:15 AM
Heptane	**20,000**		**1,200**	**µg/Kg-dry**	1000	4/17/2011 04:15 AM
Hexachlorobutadiene	ND	UJ	1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
Hexachloroethane	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
Hexane	**11,000**		**3,700**	**µg/Kg-dry**	1000	4/17/2011 04:15 AM
Iodomethane	ND		3,100	µg/Kg-dry	1000	4/17/2011 04:15 AM
Isopropylbenzene	**9,600**	J	**1,200**	**µg/Kg-dry**	1000	4/17/2011 04:15 AM
m,p-Xylene	**380,000**	J	**24,000**	**µg/Kg-dry**	10000	4/17/2011 12:06 PM
Methyl tert-butyl ether	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:15 AM
Methylene chloride	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
n-Butylbenzene	ND	UJ	610	µg/Kg-dry	1000	4/17/2011 04:15 AM
n-Propylbenzene	**17,000**	J	**2,400**	**µg/Kg-dry**	1000	4/17/2011 04:15 AM
Naphthalene	**50,000**	J	**2,400**	**µg/Kg-dry**	1000	4/17/2011 04:15 AM
o-Xylene	**130,000**	J	**12,000**	**µg/Kg-dry**	10000	4/17/2011 12:06 PM
p-Isopropyltoluene	**140,000**	J	**43,000**	**µg/Kg-dry**	10000	4/17/2011 12:06 PM

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-24
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	**5,800**	J	**1,200**	**µg/Kg-dry**	1000	4/17/2011 04:15 AM
Styrene	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:15 AM
tert-Amyl methyl ether	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
tert-Butyl alcohol	ND		6,100	µg/Kg-dry	1000	4/17/2011 04:15 AM
tert-Butylbenzene	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:15 AM
Tetrachloroethene	ND		610	µg/Kg-dry	1000	4/17/2011 04:15 AM
Tetrahydrofuran	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:15 AM
Toluene	**120,000**	J	**18,000**	**µg/Kg-dry**	10000	4/17/2011 12:06 PM
trans-1,2-Dichloroethene	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
trans-1,3-Dichloropropene	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:15 AM
trans-1,4-Dichloro-2-butene	ND	UJ	4,300	µg/Kg-dry	1000	4/17/2011 04:15 AM
Trichloroethene	ND		610	µg/Kg-dry	1000	4/17/2011 04:15 AM
Trichlorofluoromethane	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
Vinyl acetate	ND		18,000	µg/Kg-dry	1000	4/17/2011 04:15 AM
Vinyl chloride	ND		490	µg/Kg-dry	1000	4/17/2011 04:15 AM
1,2-Dichloroethene, Total	ND		3,100	µg/Kg-dry	1000	4/17/2011 04:15 AM
1,3-Dichloropropene, Total	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:15 AM
Xylenes, Total	**510,000**	J	**37,000**	**µg/Kg-dry**	10000	4/17/2011 12:06 PM
Surr: 1,2-Dichloroethane-d4	*103*		*70-120*	*%REC*	10000	4/17/2011 12:06 PM
Surr: 1,2-Dichloroethane-d4	*93.0*		*70-120*	*%REC*	1000	4/17/2011 04:15 AM
Surr: 4-Bromofluorobenzene	*99.2*		*75-120*	*%REC*	10000	4/17/2011 12:06 PM
Surr: 4-Bromofluorobenzene	*106*		*75-120*	*%REC*	1000	4/17/2011 04:15 AM
Surr: Dibromofluoromethane	*98.8*		*85-115*	*%REC*	10000	4/17/2011 12:06 PM
Surr: Dibromofluoromethane	*96.6*		*85-115*	*%REC*	1000	4/17/2011 04:15 AM
Surr: Toluene-d8	*101*		*85-115*	*%REC*	1000	4/17/2011 04:15 AM
Surr: Toluene-d8	*98.3*		*85-115*	*%REC*	10000	4/17/2011 12:06 PM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**18**		**0.050**	**% of sample**	1	4/18/2011 08:00 AM

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-25
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **4/18/2011**	Analyst: **JD**
Aroclor 1016	ND	UJ	47	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1221	ND		47	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1232	ND		47	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1242	ND		47	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1248	ND		47	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1254	**120**		**47**	**µg/Kg-dry**	1	4/18/2011 03:10 PM
Aroclor 1260	ND	UJ	47	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1262	ND		47	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1268	ND		47	µg/Kg-dry	1	4/18/2011 03:10 PM
Surr: Decachlorobiphenyl	*85.1*		*40-140*	*%REC*	1	4/18/2011 03:10 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **4/18/2011**	Analyst: **CES**
Arsenic	**0.73**		**0.19**	**mg/Kg-dry**	1	4/18/2011 08:49 PM
Lead	**1.4**	J	**0.19**	**mg/Kg-dry**	1	4/18/2011 08:49 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
1,1,1,2-Tetrachloroethane	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:42 AM
1,1,1-Trichloroethane	**4,900**		**1,200**	**µg/Kg-dry**	1000	4/17/2011 04:42 AM
1,1,2,2-Tetrachloroethane	ND	UJ	1,200	µg/Kg-dry	1000	4/17/2011 04:42 AM
1,1,2-Trichloroethane	ND		600	µg/Kg-dry	1000	4/17/2011 04:42 AM
1,1,2-Trichlorotrifluoroethane	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:42 AM
1,1-Dichloroethane	**2,600**		**1,200**	**µg/Kg-dry**	1000	4/17/2011 04:42 AM
1,1-Dichloroethene	ND		600	µg/Kg-dry	1000	4/17/2011 04:42 AM
1,1-Dichloropropene	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:42 AM
1,2,3-Trichlorobenzene	ND	UJ	2,400	µg/Kg-dry	1000	4/17/2011 04:42 AM
1,2,3-Trichloropropane	ND	UJ	2,400	µg/Kg-dry	1000	4/17/2011 04:42 AM
1,2,4-Trichlorobenzene	ND	UJ	1,200	µg/Kg-dry	1000	4/17/2011 04:42 AM
1,2,4-Trimethylbenzene	**360,000**	J	**12,000**	**µg/Kg-dry**	10000	4/17/2011 12:32 PM
1,2-Dibromo-3-chloropropane	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:42 AM
1,2-Dibromoethane	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:42 AM
1,2-Dichlorobenzene	ND	UJ	1,200	µg/Kg-dry	1000	4/17/2011 04:42 AM
1,2-Dichloroethane	ND		600	µg/Kg-dry	1000	4/17/2011 04:42 AM
1,2-Dichloropropane	ND		600	µg/Kg-dry	1000	4/17/2011 04:42 AM
1,3,5-Trimethylbenzene	**130,000**	J	**12,000**	**µg/Kg-dry**	10000	4/17/2011 12:32 PM
1,3-Dichlorobenzene	ND		600	µg/Kg-dry	1000	4/17/2011 04:42 AM
1,3-Dichloropropane	ND		600	µg/Kg-dry	1000	4/17/2011 04:42 AM
1,4-Dichlorobenzene	ND		600	µg/Kg-dry	1000	4/17/2011 04:42 AM
2,2-Dichloropropane	ND		600	µg/Kg-dry	1000	4/17/2011 04:42 AM
2-Butanone	ND		9,000	µg/Kg-dry	1000	4/17/2011 04:42 AM
2-Chlorotoluene	ND	UJ	600	µg/Kg-dry	1000	4/17/2011 04:42 AM

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-25
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Hexanone	ND		6,000	µg/Kg-dry	1000	4/17/2011 04:42 AM
2-Methylnaphthalene	**47,000**		**3,600**	**µg/Kg-dry**	1000	4/17/2011 04:42 AM
4-Chlorotoluene	ND	UJ	2,400	µg/Kg-dry	1000	4/17/2011 04:42 AM
4-Methyl-2-pentanone	ND	UJ	6,000	µg/Kg-dry	1000	4/17/2011 04:42 AM
Acetone	ND		5,400	µg/Kg-dry	1000	4/17/2011 04:42 AM
Acrylonitrile	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:42 AM
Benzene	**15,000**		**600**	**µg/Kg-dry**	1000	4/17/2011 04:42 AM
Bromobenzene	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:42 AM
Bromochloromethane	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:42 AM
Bromodichloromethane	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:42 AM
Bromoform	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:42 AM
Carbon disulfide	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:42 AM
Carbon tetrachloride	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:42 AM
Chlorobenzene	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:42 AM
Chloroethane	ND		3,600	µg/Kg-dry	1000	4/17/2011 04:42 AM
Chloroform	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:42 AM
Chloromethane	ND		3,600	µg/Kg-dry	1000	4/17/2011 04:42 AM
cis-1,2-Dichloroethene	**2,800**		**2,400**	**µg/Kg-dry**	1000	4/17/2011 04:42 AM
cis-1,3-Dichloropropene	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:42 AM
Dibromochloromethane	ND		2,400	µg/Kg-dry	1000	4/17/2011 04:42 AM
Dibromomethane	ND		2,400	µg/Kg-dry	1000	4/17/2011 04:42 AM
Dichlorodifluoromethane	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:42 AM
Diethyl ether	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:42 AM
Diisopropyl ether	ND		6,000	µg/Kg-dry	1000	4/17/2011 04:42 AM
Ethyl tert butyl ether	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:42 AM
Ethylbenzene	**160,000**	J	**24,000**	**µg/Kg-dry**	10000	4/17/2011 12:32 PM
Heptane	**62,000**		**1,200**	**µg/Kg-dry**	1000	4/17/2011 04:42 AM
Hexachlorobutadiene	ND	UJ	1,200	µg/Kg-dry	1000	4/17/2011 04:42 AM
Hexachloroethane	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:42 AM
Hexane	**82,000**		**3,600**	**µg/Kg-dry**	1000	4/17/2011 04:42 AM
Iodomethane	ND		3,000	µg/Kg-dry	1000	4/17/2011 04:42 AM
Isopropylbenzene	**23,000**	J	**1,200**	**µg/Kg-dry**	1000	4/17/2011 04:42 AM
m,p-Xylene	**950,000**	J	**24,000**	**µg/Kg-dry**	10000	4/17/2011 12:32 PM
Methyl tert-butyl ether	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:42 AM
Methylene chloride	**ND**		**1,200**	**µg/Kg-dry**	1000	4/17/2011 04:42 AM
n-Butylbenzene	ND	UJ	600	µg/Kg-dry	1000	4/17/2011 04:42 AM
n-Propylbenzene	**45,000**	J	**2,400**	**µg/Kg-dry**	1000	4/17/2011 04:42 AM
Naphthalene	**110,000**	J	**2,400**	**µg/Kg-dry**	1000	4/17/2011 04:42 AM
o-Xylene	**350,000**	J	**12,000**	**µg/Kg-dry**	10000	4/17/2011 12:32 PM
p-Isopropyltoluene	**690,000**	J	**42,000**	**µg/Kg-dry**	10000	4/17/2011 12:32 PM

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-25
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	**17,000**	J	**1,200**	**µg/Kg-dry**	1000	4/17/2011 04:42 AM
Styrene	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:42 AM
tert-Amyl methyl ether	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:42 AM
tert-Butyl alcohol	ND		6,000	µg/Kg-dry	1000	4/17/2011 04:42 AM
tert-Butylbenzene	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:42 AM
Tetrachloroethene	ND		600	µg/Kg-dry	1000	4/17/2011 04:42 AM
Tetrahydrofuran	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:42 AM
Toluene	**310,000**	J	**18,000**	**µg/Kg-dry**	10000	4/17/2011 12:32 PM
trans-1,2-Dichloroethene	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:42 AM
trans-1,3-Dichloropropene	ND		1,800	µg/Kg-dry	1000	4/17/2011 04:42 AM
trans-1,4-Dichloro-2-butene	ND	UJ	4,200	µg/Kg-dry	1000	4/17/2011 04:42 AM
Trichloroethene	ND		600	µg/Kg-dry	1000	4/17/2011 04:42 AM
Trichlorofluoromethane	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:42 AM
Vinyl acetate	ND		18,000	µg/Kg-dry	1000	4/17/2011 04:42 AM
Vinyl chloride	**1,100**		**480**	**µg/Kg-dry**	1000	4/17/2011 04:42 AM
1,2-Dichloroethene, Total	**ND**		**3,000**	**µg/Kg-dry**	1000	4/17/2011 04:42 AM
1,3-Dichloropropene, Total	ND		1,200	µg/Kg-dry	1000	4/17/2011 04:42 AM
Xylenes, Total	**1,300,000**	J	**36,000**	**µg/Kg-dry**	10000	4/17/2011 12:32 PM
Surr: 1,2-Dichloroethane-d4	*101*		*70-120*	*%REC*	10000	4/17/2011 12:32 PM
Surr: 1,2-Dichloroethane-d4	*94.4*		*70-120*	*%REC*	1000	4/17/2011 04:42 AM
Surr: 4-Bromofluorobenzene	*102*		*75-120*	*%REC*	10000	4/17/2011 12:32 PM
Surr: 4-Bromofluorobenzene	*112*		*75-120*	*%REC*	1000	4/17/2011 04:42 AM
Surr: Dibromofluoromethane	*98.9*		*85-115*	*%REC*	10000	4/17/2011 12:32 PM
Surr: Dibromofluoromethane	*97.6*		*85-115*	*%REC*	1000	4/17/2011 04:42 AM
Surr: Toluene-d8	*100*		*85-115*	*%REC*	1000	4/17/2011 04:42 AM
Surr: Toluene-d8	*98.0*		*85-115*	*%REC*	10000	4/17/2011 12:32 PM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**16**		**0.050**	**% of sample**	1	4/18/2011 08:00 AM

RA 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-26
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **4/18/2011**	Analyst: **JD**
Aroclor 1016	ND	UJ	45	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1221	ND		45	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1232	ND		45	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1242	ND		45	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1248	ND		45	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1254	**220**		**45**	**µg/Kg-dry**	1	4/18/2011 03:10 PM
Aroclor 1260	ND	UJ	45	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1262	ND		45	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1268	ND		45	µg/Kg-dry	1	4/18/2011 03:10 PM
Surr: Decachlorobiphenyl	*72.1*		*40-140*	*%REC*	1	4/18/2011 03:10 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **4/19/2011**	Analyst: **CES**
Arsenic	**3.2**	J	**0.20**	**mg/Kg-dry**	1	4/19/2011 05:13 PM
Lead	**2.2**		**0.020**	**mg/Kg-dry**	1	4/19/2011 05:13 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **BG**
1,1,1,2-Tetrachloroethane	ND		180	µg/Kg-dry	100	4/19/2011 06:38 PM
1,1,1-Trichloroethane	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
1,1,2,2-Tetrachloroethane	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
1,1,2-Trichloroethane	ND		59	µg/Kg-dry	100	4/19/2011 06:38 PM
1,1,2-Trichlorotrifluoroethane	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
1,1-Dichloroethane	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
1,1-Dichloroethene	ND		59	µg/Kg-dry	100	4/19/2011 06:38 PM
1,1-Dichloropropene	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
1,2,3-Trichlorobenzene	ND		240	µg/Kg-dry	100	4/19/2011 06:38 PM
1,2,3-Trichloropropane	ND		240	µg/Kg-dry	100	4/19/2011 06:38 PM
1,2,4-Trichlorobenzene	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
1,2,4-Trimethylbenzene	**17,000**	J	**240**	**µg/Kg-dry**	200	4/17/2011 12:57 PM
1,2-Dibromo-3-chloropropane	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
1,2-Dibromoethane	ND		180	µg/Kg-dry	100	4/19/2011 06:38 PM
1,2-Dichlorobenzene	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
1,2-Dichloroethane	ND		59	µg/Kg-dry	100	4/19/2011 06:38 PM
1,2-Dichloropropane	ND		59	µg/Kg-dry	100	4/19/2011 06:38 PM
1,3,5-Trimethylbenzene	**9,100**		**120**	**µg/Kg-dry**	100	4/19/2011 06:38 PM
1,3-Dichlorobenzene	ND		59	µg/Kg-dry	100	4/19/2011 06:38 PM
1,3-Dichloropropane	ND		59	µg/Kg-dry	100	4/19/2011 06:38 PM
1,4-Dichlorobenzene	ND		59	µg/Kg-dry	100	4/19/2011 06:38 PM
2,2-Dichloropropane	ND		59	µg/Kg-dry	100	4/19/2011 06:38 PM
2-Butanone	ND		890	µg/Kg-dry	100	4/19/2011 06:38 PM
2-Chlorotoluene	ND		59	µg/Kg-dry	100	4/19/2011 06:38 PM

KH 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-26
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Hexanone	ND		590	µg/Kg-dry	100	4/19/2011 06:38 PM
2-Methylnaphthalene	**6,100**		**360**	**µg/Kg-dry**	100	4/19/2011 06:38 PM
4-Chlorotoluene	ND		240	µg/Kg-dry	100	4/19/2011 06:38 PM
4-Methyl-2-pentanone	ND		590	µg/Kg-dry	100	4/19/2011 06:38 PM
Acetone	ND		530	µg/Kg-dry	100	4/19/2011 06:38 PM
Acrylonitrile	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
Benzene	ND		59	µg/Kg-dry	100	4/19/2011 06:38 PM
Bromobenzene	ND		180	µg/Kg-dry	100	4/19/2011 06:38 PM
Bromochloromethane	ND		180	µg/Kg-dry	100	4/19/2011 06:38 PM
Bromodichloromethane	ND		180	µg/Kg-dry	100	4/19/2011 06:38 PM
Bromoform	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
Carbon disulfide	ND		180	µg/Kg-dry	100	4/19/2011 06:38 PM
Carbon tetrachloride	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
Chlorobenzene	**ND**		**180**	**µg/Kg-dry**	100	4/19/2011 06:38 PM
Chloroethane	ND		360	µg/Kg-dry	100	4/19/2011 06:38 PM
Chloroform	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
Chloromethane	ND		360	µg/Kg-dry	100	4/19/2011 06:38 PM
cis-1,2-Dichloroethene	**ND**		**240**	**µg/Kg-dry**	100	4/19/2011 06:38 PM
cis-1,3-Dichloropropene	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
Dibromochloromethane	ND		240	µg/Kg-dry	100	4/19/2011 06:38 PM
Dibromomethane	ND		240	µg/Kg-dry	100	4/19/2011 06:38 PM
Dichlorodifluoromethane	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
Diethyl ether	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
Diisopropyl ether	ND		590	µg/Kg-dry	100	4/19/2011 06:38 PM
Ethyl tert butyl ether	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
Ethylbenzene	**3,400**		**240**	**µg/Kg-dry**	100	4/19/2011 06:38 PM
Heptane	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
Hexachlorobutadiene	ND	UJ	120	µg/Kg-dry	100	4/19/2011 06:38 PM
Hexachloroethane	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
Hexane	ND		360	µg/Kg-dry	100	4/19/2011 06:38 PM
Iodomethane	ND		300	µg/Kg-dry	100	4/19/2011 06:38 PM
Isopropylbenzene	**1,200**		**120**	**µg/Kg-dry**	100	4/19/2011 06:38 PM
m,p-Xylene	**15,000**		**240**	**µg/Kg-dry**	100	4/19/2011 06:38 PM
Methyl tert-butyl ether	ND		180	µg/Kg-dry	100	4/19/2011 06:38 PM
Methylene chloride	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
n-Butylbenzene	**2,000**		**59**	**µg/Kg-dry**	100	4/19/2011 06:38 PM
n-Propylbenzene	**1,200**		**240**	**µg/Kg-dry**	100	4/19/2011 06:38 PM
Naphthalene	**5,200**		**240**	**µg/Kg-dry**	100	4/19/2011 06:38 PM
o-Xylene	**7,200**		**120**	**µg/Kg-dry**	100	4/19/2011 06:38 PM
p-Isopropyltoluene	**11,000**		**120**	**µg/Kg-dry**	100	4/19/2011 06:38 PM

KB 5/10/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-26
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	**780**		**120**	**µg/Kg-dry**	100	4/19/2011 06:38 PM
Styrene	ND		180	µg/Kg-dry	100	4/19/2011 06:38 PM
tert-Amyl methyl ether	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
tert-Butyl alcohol	ND		590	µg/Kg-dry	100	4/19/2011 06:38 PM
tert-Butylbenzene	**290**		**180**	**µg/Kg-dry**	100	4/19/2011 06:38 PM
Tetrachloroethene	ND		59	µg/Kg-dry	100	4/19/2011 06:38 PM
Tetrahydrofuran	ND		180	µg/Kg-dry	100	4/19/2011 06:38 PM
Toluene	**2,700**		**180**	**µg/Kg-dry**	100	4/19/2011 06:38 PM
trans-1,2-Dichloroethene	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
trans-1,3-Dichloropropene	ND		180	µg/Kg-dry	100	4/19/2011 06:38 PM
trans-1,4-Dichloro-2-butene	ND		410	µg/Kg-dry	100	4/19/2011 06:38 PM
Trichloroethene	ND		59	µg/Kg-dry	100	4/19/2011 06:38 PM
Trichlorofluoromethane	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
Vinyl acetate	ND		1,800	µg/Kg-dry	100	4/19/2011 06:38 PM
Vinyl chloride	ND		47	µg/Kg-dry	100	4/19/2011 06:38 PM
1,2-Dichloroethene, Total	**ND**		**300**	**µg/Kg-dry**	100	4/19/2011 06:38 PM
1,3-Dichloropropene, Total	ND		120	µg/Kg-dry	100	4/19/2011 06:38 PM
Xylenes, Total	**23,000**		**360**	**µg/Kg-dry**	100	4/19/2011 06:38 PM
Surr: 1,2-Dichloroethane-d4	*102*		*70-120*	*%REC*	200	4/17/2011 12:57 PM
Surr: 1,2-Dichloroethane-d4	*104*		*70-120*	*%REC*	100	4/19/2011 06:38 PM
Surr: 4-Bromofluorobenzene	*101*		*75-120*	*%REC*	200	4/17/2011 12:57 PM
Surr: 4-Bromofluorobenzene	*102*		*75-120*	*%REC*	100	4/19/2011 06:38 PM
Surr: Dibromofluoromethane	*97.0*		*85-115*	*%REC*	200	4/17/2011 12:57 PM
Surr: Dibromofluoromethane	*97.0*		*85-115*	*%REC*	100	4/19/2011 06:38 PM
Surr: Toluene-d8	*98.4*		*85-115*	*%REC*	100	4/19/2011 06:38 PM
Surr: Toluene-d8	*96.1*		*85-115*	*%REC*	200	4/17/2011 12:57 PM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**16**		**0.050**	**% of sample**	1	4/18/2011 08:00 AM

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-27
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-07
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **4/18/2011**	Analyst: **JD**
Aroclor 1016	ND	UJ	45	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1221	ND		45	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1232	ND		45	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1242	ND		45	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1248	ND		45	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1254	**210**		**45**	**µg/Kg-dry**	1	4/18/2011 03:10 PM
Aroclor 1260	ND	UJ	45	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1262	ND		45	µg/Kg-dry	1	4/18/2011 03:10 PM
Aroclor 1268	ND		45	µg/Kg-dry	1	4/18/2011 03:10 PM
Surr: Decachlorobiphenyl	*67.1*		*40-140*	*%REC*	1	4/18/2011 03:10 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **4/18/2011**	Analyst: **CES**
Arsenic	**1.2**		**0.13**	**mg/Kg-dry**	1	4/18/2011 08:55 PM
Lead	**1.4**	J	**0.13**	**mg/Kg-dry**	1	4/18/2011 08:55 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **BG**
1,1,1,2-Tetrachloroethane	ND		350	µg/Kg-dry	200	4/17/2011 06:29 PM
1,1,1-Trichloroethane	ND		230	µg/Kg-dry	200	4/17/2011 06:29 PM
1,1,2,2-Tetrachloroethane	ND	UJ	230	µg/Kg-dry	200	4/17/2011 06:29 PM
1,1,2-Trichloroethane	ND		120	µg/Kg-dry	200	4/17/2011 06:29 PM
1,1,2-Trichlorotrifluoroethane	ND		230	µg/Kg-dry	200	4/17/2011 06:29 PM
1,1-Dichloroethane	ND		230	µg/Kg-dry	200	4/17/2011 06:29 PM
1,1-Dichloroethene	ND		120	µg/Kg-dry	200	4/17/2011 06:29 PM
1,1-Dichloropropene	ND		230	µg/Kg-dry	200	4/17/2011 06:29 PM
1,2,3-Trichlorobenzene	ND	UJ	460	µg/Kg-dry	200	4/17/2011 06:29 PM
1,2,3-Trichloropropane	ND	UJ	460	µg/Kg-dry	200	4/17/2011 06:29 PM
1,2,4-Trichlorobenzene	ND	UJ	230	µg/Kg-dry	200	4/17/2011 06:29 PM
1,2,4-Trimethylbenzene	**54,000**	J	**1,200**	**µg/Kg-dry**	1000	4/17/2011 05:36 AM
1,2-Dibromo-3-chloropropane	ND		230	µg/Kg-dry	200	4/17/2011 06:29 PM
1,2-Dibromoethane	ND		350	µg/Kg-dry	200	4/17/2011 06:29 PM
1,2-Dichlorobenzene	ND	UJ	230	µg/Kg-dry	200	4/17/2011 06:29 PM
1,2-Dichloroethane	ND		120	µg/Kg-dry	200	4/17/2011 06:29 PM
1,2-Dichloropropane	ND		120	µg/Kg-dry	200	4/17/2011 06:29 PM
1,3,5-Trimethylbenzene	**28,000**	J	**1,200**	**µg/Kg-dry**	1000	4/17/2011 05:36 AM
1,3-Dichlorobenzene	ND		120	µg/Kg-dry	200	4/17/2011 06:29 PM
1,3-Dichloropropane	ND		120	µg/Kg-dry	200	4/17/2011 06:29 PM
1,4-Dichlorobenzene	ND		120	µg/Kg-dry	200	4/17/2011 06:29 PM
2,2-Dichloropropane	ND		120	µg/Kg-dry	200	4/17/2011 06:29 PM
2-Butanone	ND		1,700	µg/Kg-dry	200	4/17/2011 06:29 PM
2-Chlorotoluene	ND	UJ	120	µg/Kg-dry	200	4/17/2011 06:29 PM

KH 5/2/11

KH 5/2/11

KH 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-27
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-07
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Hexanone	ND		1,200	µg/Kg-dry	200	4/17/2011 06:29 PM
2-Methylnaphthalene	**22,000**		**700**	**µg/Kg-dry**	200	4/17/2011 06:29 PM
4-Chlorotoluene	ND	UJ	460	µg/Kg-dry	200	4/17/2011 06:29 PM
4-Methyl-2-pentanone	ND	UJ	1,200	µg/Kg-dry	200	4/17/2011 06:29 PM
Acetone	ND		1,000	µg/Kg-dry	200	4/17/2011 06:29 PM
Acrylonitrile	ND		230	µg/Kg-dry	200	4/17/2011 06:29 PM
Benzene	ND		120	µg/Kg-dry	200	4/17/2011 06:29 PM
Bromobenzene	ND		350	µg/Kg-dry	200	4/17/2011 06:29 PM
Bromochloromethane	ND		350	µg/Kg-dry	200	4/17/2011 06:29 PM
Bromodichloromethane	ND		350	µg/Kg-dry	200	4/17/2011 06:29 PM
Bromoform	ND		230	µg/Kg-dry	200	4/17/2011 06:29 PM
Carbon disulfide	ND		350	µg/Kg-dry	200	4/17/2011 06:29 PM
Carbon tetrachloride	ND		230	µg/Kg-dry	200	4/17/2011 06:29 PM
Chlorobenzene	ND		350	µg/Kg-dry	200	4/17/2011 06:29 PM
Chloroethane	ND		700	µg/Kg-dry	200	4/17/2011 06:29 PM
Chloroform	ND		230	µg/Kg-dry	200	4/17/2011 06:29 PM
Chloromethane	ND		700	µg/Kg-dry	200	4/17/2011 06:29 PM
cis-1,2-Dichloroethene	ND		460	µg/Kg-dry	200	4/17/2011 06:29 PM
cis-1,3-Dichloropropene	ND		230	µg/Kg-dry	200	4/17/2011 06:29 PM
Dibromochloromethane	ND		460	µg/Kg-dry	200	4/17/2011 06:29 PM
Dibromomethane	ND		460	µg/Kg-dry	200	4/17/2011 06:29 PM
Dichlorodifluoromethane	ND		230	µg/Kg-dry	200	4/17/2011 06:29 PM
Diethyl ether	ND		230	µg/Kg-dry	200	4/17/2011 06:29 PM
Diisopropyl ether	ND		1,200	µg/Kg-dry	200	4/17/2011 06:29 PM
Ethyl tert butyl ether	ND		230	µg/Kg-dry	200	4/17/2011 06:29 PM
Ethylbenzene	**3,200**	J	**460**	**µg/Kg-dry**	200	4/17/2011 06:29 PM
Heptane	**1,700**		**230**	**µg/Kg-dry**	200	4/17/2011 06:29 PM
Hexachlorobutadiene	ND	UJ	230	µg/Kg-dry	200	4/17/2011 06:29 PM
Hexachloroethane	ND		230	µg/Kg-dry	200	4/17/2011 06:29 PM
Hexane	**2,900**		**700**	**µg/Kg-dry**	200	4/17/2011 06:29 PM
Iodomethane	ND		580	µg/Kg-dry	200	4/17/2011 06:29 PM
Isopropylbenzene	**2,500**	J	**230**	**µg/Kg-dry**	200	4/17/2011 06:29 PM
m,p-Xylene	**22,000**	J	**460**	**µg/Kg-dry**	200	4/17/2011 06:29 PM
Methyl tert-butyl ether	ND		350	µg/Kg-dry	200	4/17/2011 06:29 PM
Methylene chloride	ND		230	µg/Kg-dry	200	4/17/2011 06:29 PM
n-Butylbenzene	**5,900**	J	**120**	**µg/Kg-dry**	200	4/17/2011 06:29 PM
n-Propylbenzene	**4,700**	J	**460**	**µg/Kg-dry**	200	4/17/2011 06:29 PM
Naphthalene	**17,000**	J	**460**	**µg/Kg-dry**	200	4/17/2011 06:29 PM
o-Xylene	ND	UJ	230	µg/Kg-dry	200	4/17/2011 06:29 PM
p-Isopropyltoluene	**5,100**	J	**810**	**µg/Kg-dry**	200	4/17/2011 06:29 PM

KH 5/2/11

KH 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-27
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-07
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	**2,100**	J	**230**	**µg/Kg-dry**	200	4/17/2011 06:29 PM
Styrene	ND		350	µg/Kg-dry	200	4/17/2011 06:29 PM
tert-Amyl methyl ether	ND		230	µg/Kg-dry	200	4/17/2011 06:29 PM
tert-Butyl alcohol	ND		1,200	µg/Kg-dry	200	4/17/2011 06:29 PM
tert-Butylbenzene	ND		350	µg/Kg-dry	200	4/17/2011 06:29 PM
Tetrachloroethene	ND		120	µg/Kg-dry	200	4/17/2011 06:29 PM
Tetrahydrofuran	ND		350	µg/Kg-dry	200	4/17/2011 06:29 PM
Toluene	ND	UJ	350	µg/Kg-dry	200	4/17/2011 06:29 PM
trans-1,2-Dichloroethene	ND		230	µg/Kg-dry	200	4/17/2011 06:29 PM
trans-1,3-Dichloropropene	ND		350	µg/Kg-dry	200	4/17/2011 06:29 PM
trans-1,4-Dichloro-2-butene	ND	UJ	810	µg/Kg-dry	200	4/17/2011 06:29 PM
Trichloroethene	ND		120	µg/Kg-dry	200	4/17/2011 06:29 PM
Trichlorofluoromethane	ND		230	µg/Kg-dry	200	4/17/2011 06:29 PM
Vinyl acetate	ND		3,500	µg/Kg-dry	200	4/17/2011 06:29 PM
Vinyl chloride	ND		93	µg/Kg-dry	200	4/17/2011 06:29 PM
1,2-Dichloroethene, Total	ND		580	µg/Kg-dry	200	4/17/2011 06:29 PM
1,3-Dichloropropene, Total	ND		230	µg/Kg-dry	200	4/17/2011 06:29 PM
Xylenes, Total	**22,000**	J	**700**	**µg/Kg-dry**	200	4/17/2011 06:29 PM
Surr: 1,2-Dichloroethane-d4	*99.6*		*70-120*	*%REC*	200	4/17/2011 06:29 PM
Surr: 1,2-Dichloroethane-d4	*92.6*		*70-120*	*%REC*	1000	4/17/2011 05:36 AM
Surr: 4-Bromofluorobenzene	*115*		*75-120*	*%REC*	200	4/17/2011 06:29 PM
Surr: 4-Bromofluorobenzene	*102*		*75-120*	*%REC*	1000	4/17/2011 05:36 AM
Surr: Dibromofluoromethane	*93.5*		*85-115*	*%REC*	200	4/17/2011 06:29 PM
Surr: Dibromofluoromethane	*96.2*		*85-115*	*%REC*	1000	4/17/2011 05:36 AM
Surr: Toluene-d8	*101*		*85-115*	*%REC*	1000	4/17/2011 05:36 AM
Surr: Toluene-d8	*95.5*		*85-115*	*%REC*	200	4/17/2011 06:29 PM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**14**		**0.050**	**% of sample**	1	4/18/2011 08:00 AM

KAB 5/10/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-FD-VS-27
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-08
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **4/18/2011**	Analyst: **JD**
Aroclor 1016	ND	UJ	45	µg/Kg-dry	1	4/19/2011 12:07 PM
Aroclor 1221	ND		45	µg/Kg-dry	1	4/19/2011 12:07 PM
Aroclor 1232	ND		45	µg/Kg-dry	1	4/19/2011 12:07 PM
Aroclor 1242	ND		45	µg/Kg-dry	1	4/19/2011 12:07 PM
Aroclor 1248	ND		45	µg/Kg-dry	1	4/19/2011 12:07 PM
Aroclor 1254	**270**		**45**	**µg/Kg-dry**	1	4/19/2011 12:07 PM
Aroclor 1260	ND	UJ	45	µg/Kg-dry	1	4/19/2011 12:07 PM
Aroclor 1262	ND		45	µg/Kg-dry	1	4/19/2011 12:07 PM
Aroclor 1268	ND		45	µg/Kg-dry	1	4/19/2011 12:07 PM
Surr: Decachlorobiphenyl	*62.1*		*40-140*	*%REC*	1	4/19/2011 12:07 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **4/19/2011**	Analyst: **CES**
Arsenic	**1.4**	J	**0.22**	**mg/Kg-dry**	1	4/19/2011 05:07 PM
Lead	**1.7**		**0.022**	**mg/Kg-dry**	1	4/19/2011 05:07 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **BG**
1,1,1,2-Tetrachloroethane	ND		350	µg/Kg-dry	200	4/17/2011 06:55 PM
1,1,1-Trichloroethane	ND		240	µg/Kg-dry	200	4/17/2011 06:55 PM
1,1,2,2-Tetrachloroethane	ND	UJ	240	µg/Kg-dry	200	4/17/2011 06:55 PM
1,1,2-Trichloroethane	ND		120	µg/Kg-dry	200	4/17/2011 06:55 PM
1,1,2-Trichlorotrifluoroethane	ND		240	µg/Kg-dry	200	4/17/2011 06:55 PM
1,1-Dichloroethane	ND		240	µg/Kg-dry	200	4/17/2011 06:55 PM
1,1-Dichloroethene	ND		120	µg/Kg-dry	200	4/17/2011 06:55 PM
1,1-Dichloropropene	ND		240	µg/Kg-dry	200	4/17/2011 06:55 PM
1,2,3-Trichlorobenzene	ND	UJ	470	µg/Kg-dry	200	4/17/2011 06:55 PM
1,2,3-Trichloropropane	ND	UJ	470	µg/Kg-dry	200	4/17/2011 06:55 PM
1,2,4-Trichlorobenzene	ND	UJ	240	µg/Kg-dry	200	4/17/2011 06:55 PM
1,2,4-Trimethylbenzene	**31,000**	J	**1,200**	**µg/Kg-dry**	1000	4/17/2011 06:03 AM
1,2-Dibromo-3-chloropropane	ND		240	µg/Kg-dry	200	4/17/2011 06:55 PM
1,2-Dibromoethane	ND		350	µg/Kg-dry	200	4/17/2011 06:55 PM
1,2-Dichlorobenzene	ND	UJ	240	µg/Kg-dry	200	4/17/2011 06:55 PM
1,2-Dichloroethane	ND		120	µg/Kg-dry	200	4/17/2011 06:55 PM
1,2-Dichloropropane	ND		120	µg/Kg-dry	200	4/17/2011 06:55 PM
1,3,5-Trimethylbenzene	**15,000**	J	**240**	**µg/Kg-dry**	200	4/17/2011 06:55 PM
1,3-Dichlorobenzene	ND		120	µg/Kg-dry	200	4/17/2011 06:55 PM
1,3-Dichloropropane	ND		120	µg/Kg-dry	200	4/17/2011 06:55 PM
1,4-Dichlorobenzene	ND		120	µg/Kg-dry	200	4/17/2011 06:55 PM
2,2-Dichloropropane	ND		120	µg/Kg-dry	200	4/17/2011 06:55 PM
2-Butanone	ND		1,800	µg/Kg-dry	200	4/17/2011 06:55 PM
2-Chlorotoluene	ND	UJ	120	µg/Kg-dry	200	4/17/2011 06:55 PM

RA 5/2/11

RA 5/2/11

RA 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-FD-VS-27
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-08
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Hexanone	ND		1,200	µg/Kg-dry	200	4/17/2011 06:55 PM
2-Methylnaphthalene	**12,000**		**710**	**µg/Kg-dry**	200	4/17/2011 06:55 PM
4-Chlorotoluene	ND	UJ	470	µg/Kg-dry	200	4/17/2011 06:55 PM
4-Methyl-2-pentanone	ND	UJ	1,200	µg/Kg-dry	200	4/17/2011 06:55 PM
Acetone	ND		1,100	µg/Kg-dry	200	4/17/2011 06:55 PM
Acrylonitrile	ND		240	µg/Kg-dry	200	4/17/2011 06:55 PM
Benzene	ND		120	µg/Kg-dry	200	4/17/2011 06:55 PM
Bromobenzene	ND		350	µg/Kg-dry	200	4/17/2011 06:55 PM
Bromochloromethane	ND		350	µg/Kg-dry	200	4/17/2011 06:55 PM
Bromodichloromethane	ND		350	µg/Kg-dry	200	4/17/2011 06:55 PM
Bromoform	ND		240	µg/Kg-dry	200	4/17/2011 06:55 PM
Carbon disulfide	ND		350	µg/Kg-dry	200	4/17/2011 06:55 PM
Carbon tetrachloride	ND		240	µg/Kg-dry	200	4/17/2011 06:55 PM
Chlorobenzene	ND		350	µg/Kg-dry	200	4/17/2011 06:55 PM
Chloroethane	ND		710	µg/Kg-dry	200	4/17/2011 06:55 PM
Chloroform	ND		240	µg/Kg-dry	200	4/17/2011 06:55 PM
Chloromethane	ND		710	µg/Kg-dry	200	4/17/2011 06:55 PM
cis-1,2-Dichloroethene	ND		470	µg/Kg-dry	200	4/17/2011 06:55 PM
cis-1,3-Dichloropropene	ND		240	µg/Kg-dry	200	4/17/2011 06:55 PM
Dibromochloromethane	ND		470	µg/Kg-dry	200	4/17/2011 06:55 PM
Dibromomethane	ND		470	µg/Kg-dry	200	4/17/2011 06:55 PM
Dichlorodifluoromethane	ND		240	µg/Kg-dry	200	4/17/2011 06:55 PM
Diethyl ether	ND		240	µg/Kg-dry	200	4/17/2011 06:55 PM
Diisopropyl ether	ND		1,200	µg/Kg-dry	200	4/17/2011 06:55 PM
Ethyl tert butyl ether	ND		240	µg/Kg-dry	200	4/17/2011 06:55 PM
Ethylbenzene	**1,500**	J	**470**	**µg/Kg-dry**	200	4/17/2011 06:55 PM
Heptane	**800**		**240**	**µg/Kg-dry**	200	4/17/2011 06:55 PM
Hexachlorobutadiene	ND	UJ	240	µg/Kg-dry	200	4/17/2011 06:55 PM
Hexachloroethane	ND		240	µg/Kg-dry	200	4/17/2011 06:55 PM
Hexane	**1,400**		**710**	**µg/Kg-dry**	200	4/17/2011 06:55 PM
Iodomethane	ND		590	µg/Kg-dry	200	4/17/2011 06:55 PM
Isopropylbenzene	**1,400**	J	**240**	**µg/Kg-dry**	200	4/17/2011 06:55 PM
m,p-Xylene	**11,000**	J	**470**	**µg/Kg-dry**	200	4/17/2011 06:55 PM
Methyl tert-butyl ether	ND		350	µg/Kg-dry	200	4/17/2011 06:55 PM
Methylene chloride	ND		240	µg/Kg-dry	200	4/17/2011 06:55 PM
n-Butylbenzene	**3,200**	J	**120**	**µg/Kg-dry**	200	4/17/2011 06:55 PM
n-Propylbenzene	**2,600**	J	**470**	**µg/Kg-dry**	200	4/17/2011 06:55 PM
Naphthalene	**11,000**	J	**470**	**µg/Kg-dry**	200	4/17/2011 06:55 PM
o-Xylene	ND	UJ	240	µg/Kg-dry	200	4/17/2011 06:55 PM
p-Isopropyltoluene	**2,700**	J	**830**	**µg/Kg-dry**	200	4/17/2011 06:55 PM

KH 5/2/11

KH 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-FD-VS-27
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-08
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	**1,200**	J	**240**	**µg/Kg-dry**	200	4/17/2011 06:55 PM
Styrene	ND		350	µg/Kg-dry	200	4/17/2011 06:55 PM
tert-Amyl methyl ether	ND		240	µg/Kg-dry	200	4/17/2011 06:55 PM
tert-Butyl alcohol	ND		1,200	µg/Kg-dry	200	4/17/2011 06:55 PM
tert-Butylbenzene	ND		350	µg/Kg-dry	200	4/17/2011 06:55 PM
Tetrachloroethene	ND		120	µg/Kg-dry	200	4/17/2011 06:55 PM
Tetrahydrofuran	ND		350	µg/Kg-dry	200	4/17/2011 06:55 PM
Toluene	ND	UJ	350	µg/Kg-dry	200	4/17/2011 06:55 PM
trans-1,2-Dichloroethene	ND		240	µg/Kg-dry	200	4/17/2011 06:55 PM
trans-1,3-Dichloropropene	ND		350	µg/Kg-dry	200	4/17/2011 06:55 PM
trans-1,4-Dichloro-2-butene	ND	UJ	830	µg/Kg-dry	200	4/17/2011 06:55 PM
Trichloroethene	ND		120	µg/Kg-dry	200	4/17/2011 06:55 PM
Trichlorofluoromethane	ND		240	µg/Kg-dry	200	4/17/2011 06:55 PM
Vinyl acetate	ND		3,500	µg/Kg-dry	200	4/17/2011 06:55 PM
Vinyl chloride	ND		95	µg/Kg-dry	200	4/17/2011 06:55 PM
1,2-Dichloroethene, Total	ND		590	µg/Kg-dry	200	4/17/2011 06:55 PM
1,3-Dichloropropene, Total	ND		240	µg/Kg-dry	200	4/17/2011 06:55 PM
Xylenes, Total	**11,000**	J	**710**	**µg/Kg-dry**	200	4/17/2011 06:55 PM
Surr: 1,2-Dichloroethane-d4	*98.3*		*70-120*	*%REC*	200	4/17/2011 06:55 PM
Surr: 1,2-Dichloroethane-d4	*91.7*		*70-120*	*%REC*	1000	4/17/2011 06:03 AM
Surr: 4-Bromofluorobenzene	*110*		*75-120*	*%REC*	200	4/17/2011 06:55 PM
Surr: 4-Bromofluorobenzene	*100*		*75-120*	*%REC*	1000	4/17/2011 06:03 AM
Surr: Dibromofluoromethane	*92.1*		*85-115*	*%REC*	200	4/17/2011 06:55 PM
Surr: Dibromofluoromethane	*96.4*		*85-115*	*%REC*	1000	4/17/2011 06:03 AM
Surr: Toluene-d8	*99.7*		*85-115*	*%REC*	1000	4/17/2011 06:03 AM
Surr: Toluene-d8	*94.4*		*85-115*	*%REC*	200	4/17/2011 06:55 PM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**15**		**0.050**	**% of sample**	1	4/18/2011 08:00 AM

KH 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-MB-02
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-09
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
1,1,1,2-Tetrachloroethane	ND		150	µg/Kg	100	4/17/2011 02:26 AM
1,1,1-Trichloroethane	ND		100	µg/Kg	100	4/17/2011 02:26 AM
1,1,2,2-Tetrachloroethane	ND		100	µg/Kg	100	4/17/2011 02:26 AM
1,1,2-Trichloroethane	ND		50	µg/Kg	100	4/17/2011 02:26 AM
1,1,2-Trichlorotrifluoroethane	ND		100	µg/Kg	100	4/17/2011 02:26 AM
1,1-Dichloroethane	ND		100	µg/Kg	100	4/17/2011 02:26 AM
1,1-Dichloroethene	ND		50	µg/Kg	100	4/17/2011 02:26 AM
1,1-Dichloropropene	ND		100	µg/Kg	100	4/17/2011 02:26 AM
1,2,3-Trichlorobenzene	ND		200	µg/Kg	100	4/17/2011 02:26 AM
1,2,3-Trichloropropane	ND		200	µg/Kg	100	4/17/2011 02:26 AM
1,2,4-Trichlorobenzene	ND	UJ	100	µg/Kg	100	4/17/2011 02:26 AM
1,2,4-Trimethylbenzene	ND		100	µg/Kg	100	4/17/2011 02:26 AM
1,2-Dibromo-3-chloropropane	ND		100	µg/Kg	100	4/17/2011 02:26 AM
1,2-Dibromoethane	ND		150	µg/Kg	100	4/17/2011 02:26 AM
1,2-Dichlorobenzene	ND		100	µg/Kg	100	4/17/2011 02:26 AM
1,2-Dichloroethane	ND		50	µg/Kg	100	4/17/2011 02:26 AM
1,2-Dichloropropane	ND		50	µg/Kg	100	4/17/2011 02:26 AM
1,3,5-Trimethylbenzene	ND		100	µg/Kg	100	4/17/2011 02:26 AM
1,3-Dichlorobenzene	ND		50	µg/Kg	100	4/17/2011 02:26 AM
1,3-Dichloropropane	ND		50	µg/Kg	100	4/17/2011 02:26 AM
1,4-Dichlorobenzene	ND		50	µg/Kg	100	4/17/2011 02:26 AM
2,2-Dichloropropane	ND		50	µg/Kg	100	4/17/2011 02:26 AM
2-Butanone	ND		750	µg/Kg	100	4/17/2011 02:26 AM
2-Chlorotoluene	ND		50	µg/Kg	100	4/17/2011 02:26 AM
2-Hexanone	ND		500	µg/Kg	100	4/17/2011 02:26 AM
2-Methylnaphthalene	ND		300	µg/Kg	100	4/17/2011 02:26 AM
4-Chlorotoluene	ND		200	µg/Kg	100	4/17/2011 02:26 AM
4-Methyl-2-pentanone	ND	UJ	500	µg/Kg	100	4/17/2011 02:26 AM
Acetone	ND		450	µg/Kg	100	4/17/2011 02:26 AM
Acrylonitrile	ND		100	µg/Kg	100	4/17/2011 02:26 AM
Benzene	ND		50	µg/Kg	100	4/17/2011 02:26 AM
Bromobenzene	ND		150	µg/Kg	100	4/17/2011 02:26 AM
Bromochloromethane	ND		150	µg/Kg	100	4/17/2011 02:26 AM
Bromodichloromethane	ND		150	µg/Kg	100	4/17/2011 02:26 AM
Bromoform	ND		100	µg/Kg	100	4/17/2011 02:26 AM
Carbon disulfide	ND		150	µg/Kg	100	4/17/2011 02:26 AM
Carbon tetrachloride	ND		100	µg/Kg	100	4/17/2011 02:26 AM
Chlorobenzene	ND		150	µg/Kg	100	4/17/2011 02:26 AM
Chloroethane	ND		300	µg/Kg	100	4/17/2011 02:26 AM

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KB 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-MB-02
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-09
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	ND		100	µg/Kg	100	4/17/2011 02:26 AM
Chloromethane	ND		300	µg/Kg	100	4/17/2011 02:26 AM
cis-1,2-Dichloroethene	ND		200	µg/Kg	100	4/17/2011 02:26 AM
cis-1,3-Dichloropropene	ND		100	µg/Kg	100	4/17/2011 02:26 AM
Dibromochloromethane	ND		200	µg/Kg	100	4/17/2011 02:26 AM
Dibromomethane	ND		200	µg/Kg	100	4/17/2011 02:26 AM
Dichlorodifluoromethane	ND		100	µg/Kg	100	4/17/2011 02:26 AM
Diethyl ether	ND		100	µg/Kg	100	4/17/2011 02:26 AM
Diisopropyl ether	ND		500	µg/Kg	100	4/17/2011 02:26 AM
Ethyl tert butyl ether	ND		100	µg/Kg	100	4/17/2011 02:26 AM
Ethylbenzene	ND		200	µg/Kg	100	4/17/2011 02:26 AM
Heptane	ND		100	µg/Kg	100	4/17/2011 02:26 AM
Hexachlorobutadiene	ND		100	µg/Kg	100	4/17/2011 02:26 AM
Hexachloroethane	ND		100	µg/Kg	100	4/17/2011 02:26 AM
Hexane	ND		300	µg/Kg	100	4/17/2011 02:26 AM
Iodomethane	ND		250	µg/Kg	100	4/17/2011 02:26 AM
Isopropylbenzene	ND		100	µg/Kg	100	4/17/2011 02:26 AM
m,p-Xylene	ND		200	µg/Kg	100	4/17/2011 02:26 AM
Methyl tert-butyl ether	ND		150	µg/Kg	100	4/17/2011 02:26 AM
Methylene chloride	ND		100	µg/Kg	100	4/17/2011 02:26 AM
n-Butylbenzene	ND		50	µg/Kg	100	4/17/2011 02:26 AM
n-Propylbenzene	ND		200	µg/Kg	100	4/17/2011 02:26 AM
Naphthalene	ND		200	µg/Kg	100	4/17/2011 02:26 AM
o-Xylene	ND		100	µg/Kg	100	4/17/2011 02:26 AM
p-Isopropyltoluene	ND		350	µg/Kg	100	4/17/2011 02:26 AM
sec-Butylbenzene	ND		100	µg/Kg	100	4/17/2011 02:26 AM
Styrene	ND		150	µg/Kg	100	4/17/2011 02:26 AM
tert-Amyl methyl ether	ND		100	µg/Kg	100	4/17/2011 02:26 AM
tert-Butyl alcohol	ND		500	µg/Kg	100	4/17/2011 02:26 AM
tert-Butylbenzene	ND		150	µg/Kg	100	4/17/2011 02:26 AM
Tetrachloroethene	ND		50	µg/Kg	100	4/17/2011 02:26 AM
Tetrahydrofuran	ND		150	µg/Kg	100	4/17/2011 02:26 AM
Toluene	ND		150	µg/Kg	100	4/17/2011 02:26 AM
trans-1,2-Dichloroethene	ND		100	µg/Kg	100	4/17/2011 02:26 AM
trans-1,3-Dichloropropene	ND		150	µg/Kg	100	4/17/2011 02:26 AM
trans-1,4-Dichloro-2-butene	ND		350	µg/Kg	100	4/17/2011 02:26 AM
Trichloroethene	ND		50	µg/Kg	100	4/17/2011 02:26 AM
Trichlorofluoromethane	ND		100	µg/Kg	100	4/17/2011 02:26 AM
Vinyl acetate	ND		1,500	µg/Kg	100	4/17/2011 02:26 AM
Vinyl chloride	ND		40	µg/Kg	100	4/17/2011 02:26 AM

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-MB-02
Collection Date: 4/15/2011

Work Order: 1104422
Lab ID: 1104422-09
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethene, Total	ND		250	µg/Kg	100	4/17/2011 02:26 AM
1,3-Dichloropropene, Total	ND		100	µg/Kg	100	4/17/2011 02:26 AM
Xylenes, Total	ND		300	µg/Kg	100	4/17/2011 02:26 AM
Surr: 1,2-Dichloroethane-d4	*101*		*70-120*	*%REC*	100	4/17/2011 02:26 AM
Surr: 4-Bromofluorobenzene	*98.6*		*75-120*	*%REC*	100	4/17/2011 02:26 AM
Surr: Dibromofluoromethane	*102*		*85-115*	*%REC*	100	4/17/2011 02:26 AM
Surr: Toluene-d8	*100*		*85-115*	*%REC*	100	4/17/2011 02:26 AM

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

ALS Group USA, Corp

Date: 01-May-11

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **32869** Instrument ID **GC4** Method: **SW8082**

MBLK Sample ID: **PBLKS1-32869-32869** Units: **µg/Kg** Analysis Date: **4/18/2011 03:10 PM**

Client ID: Run ID: **GC4_110418A** SeqNo: **1603593** Prep Date: **4/18/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	40								
Aroclor 1221	ND	40								
Aroclor 1232	ND	40								
Aroclor 1242	ND	40								
Aroclor 1248	ND	40								
Aroclor 1254	ND	40								
Aroclor 1260	ND	40								
Aroclor 1262	ND	40								
Aroclor 1268	ND	40								
Surr: Decachlorobiphenyl	*29.33*	0	*33.3*	0	*88.1*	*50-130*	0			

MBLK Sample ID: **PBLKS1-32869-32869** Units: **µg/Kg** Analysis Date: **4/18/2011 03:10 PM**

Client ID: Run ID: **GC4_110418A** SeqNo: **1603621** Prep Date: **4/18/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	40								
Aroclor 1221	ND	40								
Aroclor 1232	ND	40								
Aroclor 1242	ND	40								
Aroclor 1248	ND	40								
Aroclor 1254	ND	40								
Aroclor 1260	ND	40								
Surr: Decachlorobiphenyl	*29.33*	0	*33.3*	0	*88.1*	*50-130*	0			

LCS Sample ID: **PLCSS1-32869-32869** Units: **µg/Kg** Analysis Date: **4/18/2011 03:10 PM**

Client ID: Run ID: **GC4_110418A** SeqNo: **1603595** Prep Date: **4/18/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	722.3	40	833	0	86.7	50-130	0			
Aroclor 1260	751.3	40	833	0	90.2	50-130	0			
Surr: Decachlorobiphenyl	*29.67*	0	*33.3*	0	*89.1*	*50-130*	0			

LCS Sample ID: **PLCSS1-32869-32869** Units: **µg/Kg** Analysis Date: **4/18/2011 03:10 PM**

Client ID: Run ID: **GC4_110418A** SeqNo: **1603623** Prep Date: **4/18/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	722.3	40	833	0	86.7	50-130	0			
Aroclor 1260	751.3	40	833	0	90.2	50-130	0			
Surr: Decachlorobiphenyl	*29.67*	0	*33.3*	0	*89.1*	*50-130*	0			

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **32869** Instrument ID **GC4** Method: **SW8082**

LCSD Sample ID: **PLCSDS1-32869-32869** Units: **µg/Kg** Analysis Date: **4/18/2011 03:10 PM**
Client ID: Run ID: **GC4_110418A** SeqNo: **1603594** Prep Date: **4/18/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	735	40	833	0	88.2	50-130	722.3	1.74	25	
Aroclor 1260	763.7	40	833	0	91.7	50-130	751.3	1.63	25	
Surr: Decachlorobiphenyl	*29.67*	0	*33.3*	0	*89.1*	*50-130*	29.67	*0*	*25*	

LCSD Sample ID: **PLCSDS1-32869-32869** Units: **µg/Kg** Analysis Date: **4/18/2011 03:10 PM**
Client ID: Run ID: **GC4_110418A** SeqNo: **1603622** Prep Date: **4/18/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	735	40	833	0	88.2	50-130	722.3	1.74	25	
Aroclor 1260	763.7	40	833	0	91.7	50-130	751.3	1.63	25	
Surr: Decachlorobiphenyl	*29.67*	0	*33.3*	0	*89.1*	*50-130*	29.67	*0*	*25*	

MS Sample ID: **1104422-01B MS** Units: **µg/Kg** Analysis Date: **4/18/2011 03:10 PM**
Client ID: **RO-S-VS-21** Run ID: **GC4_110418A** SeqNo: **1603585** Prep Date: **4/18/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	1186	38	798.8	0	148	40-140	0			S
Aroclor 1260	2942	38	798.8	0	368	40-140	0			S
Surr: Decachlorobiphenyl	*24.29*	0	*31.93*	0	*76.1*	*40-140*	0			

MSD Sample ID: **1104422-01B MSD** Units: **µg/Kg** Analysis Date: **4/18/2011 03:10 PM**
Client ID: **RO-S-VS-21** Run ID: **GC4_110418A** SeqNo: **1603586** Prep Date: **4/18/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	1151	40	824.9	0	140	40-140	1186	2.95	50	
Aroclor 1260	2948	40	824.9	0	357	40-140	2942	0.204	50	S
Surr: Decachlorobiphenyl	*24.43*	0	*32.97*	0	*74.1*	*40-140*	24.29	*0.549*	*50*	

The following samples were analyzed in this batch:

1104422-01B	1104422-02B	1104422-03B
1104422-04B	1104422-05B	1104422-06B
1104422-07B	1104422-08B	

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **32876** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-32876-32876** Units: **mg/Kg** Analysis Date: **4/18/2011 05:41 PM**
Client ID: Run ID: **ICPMS1_110418A** SeqNo: **1603353** Prep Date: **4/18/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.0245	0.25								J
Lead	0.03793	0.25								J

LCS Sample ID: **LCS-32876-32876** Units: **mg/Kg** Analysis Date: **4/18/2011 05:47 PM**
Client ID: Run ID: **ICPMS1_110418A** SeqNo: **1603354** Prep Date: **4/18/2011** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.507	0.50	5	0	90.1	80-120	0			
Lead	4.716	0.50	5	0	94.3	80-120	0			

LCSD Sample ID: **LCSD-32876-32876** Units: **mg/Kg** Analysis Date: **4/18/2011 05:53 PM**
Client ID: Run ID: **ICPMS1_110418A** SeqNo: **1603355** Prep Date: **4/18/2011** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.497	0.50	5	0	89.9	80-120	4.472	0.557	20	
Lead	4.804	0.50	5	0	96.1	80-120	4.661	3.02	20	

MS Sample ID: **1104427-13BMS** Units: **mg/Kg** Analysis Date: **4/18/2011 09:37 PM**
Client ID: Run ID: **ICPMS1_110418A** SeqNo: **1603383** Prep Date: **4/18/2011** DF: **4**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.95	1.4	6.757	7.129	86.2	80-120	0			
Lead	101.8	1.4	6.757	134.7	-487	80-120	0			SO

MSD Sample ID: **1104427-13BMSD** Units: **mg/Kg** Analysis Date: **4/18/2011 09:43 PM**
Client ID: Run ID: **ICPMS1_110418A** SeqNo: **1603384** Prep Date: **4/18/2011** DF: **4**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	14.87	1.4	6.78	7.129	114	80-120	12.95	13.8	25	
Lead	147.4	1.4	6.78	134.7	188	80-120	101.8	36.6	25	SRO

The following samples were analyzed in this batch: 1104422-01B 1104422-02B 1104422-05B 1104422-07B

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **32881** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-32881-32881** Units: **mg/Kg** Analysis Date: **4/19/2011 02:10 PM**
Client ID: Run ID: **ICPMS1_110419A** SeqNo: **1604137** Prep Date: **4/19/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Lead	0.01053	0.25								J

LCS Sample ID: **LCS-32881-32881** Units: **mg/Kg** Analysis Date: **4/19/2011 02:16 PM**
Client ID: Run ID: **ICPMS1_110419A** SeqNo: **1604138** Prep Date: **4/19/2011** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.022	0.50	5	0	80.4	80-120	0			
Lead	4.18	0.50	5	0	83.6	80-120	0			

LCSD Sample ID: **LCSD-32881-32881** Units: **mg/Kg** Analysis Date: **4/19/2011 02:22 PM**
Client ID: Run ID: **ICPMS1_110419A** SeqNo: **1604139** Prep Date: **4/19/2011** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.191	0.50	5	0	83.8	80-120	4.022	4.12	20	
Lead	4.242	0.50	5	0	84.8	80-120	4.18	1.47	20	

MS Sample ID: **1104422-06BMS** Units: **mg/Kg** Analysis Date: **4/19/2011 05:25 PM**
Client ID: **RO-S-VS-26** Run ID: **ICPMS1_110419A** SeqNo: **1604541** Prep Date: **4/19/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.934	0.44	8.881	2.716	70	80-120	0			S
Lead	9.6	0.44	8.881	1.896	86.8	80-120	0			

MSD Sample ID: **1104422-06BMSD** Units: **mg/Kg** Analysis Date: **4/19/2011 05:31 PM**
Client ID: **RO-S-VS-26** Run ID: **ICPMS1_110419A** SeqNo: **1604542** Prep Date: **4/19/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.156	0.44	8.703	2.716	74	80-120	8.934	2.45	25	S
Lead	9.861	0.44	8.703	1.896	91.5	80-120	9.6	2.68	25	

The following samples were analyzed in this batch: 1104422-03B 1104422-04B 1104422-06B 1104422-08B

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89078** Instrument ID **VMS8** Method: **SW8260**

MBLK Sample ID: **VBLKW2-110416-R89078** Units: **µg/L** Analysis Date: **4/17/2011 12:11 PM**

Client ID: Run ID: **VMS8_110416A** SeqNo: **1601655** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1,2-Trichlorotrifluoroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,1-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	3.0								
1,2,3-Trichloropropane	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	1.0								
1,2-Dibromoethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	2.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,3-Dichlorobenzene	ND	2.0								
1,3-Dichloropropane	ND	1.0								
1,4-Dichlorobenzene	ND	2.0								
2,2-Dichloropropane	ND	1.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	2.0								
2-Hexanone	ND	5.0								
2-Methylnaphthalene	ND	10								
4-Chlorotoluene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	20								
Acrylonitrile	ND	1.0								
Benzene	ND	1.0								
Bromobenzene	ND	1.0								
Bromochloromethane	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Carbon disulfide	ND	2.5								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89078** Instrument ID **VMS8** Method: **SW8260**

cis-1,2-Dichloroethene	ND	1.0						
cis-1,3-Dichloropropene	ND	1.0						
Dibromochloromethane	ND	1.0						
Dibromomethane	ND	1.0						
Dichlorodifluoromethane	ND	1.0						
Diethyl ether	ND	10						
Diisopropyl ether	ND	5.0						
Ethyl tert butyl ether	ND	5.0						
Ethylbenzene	ND	1.0						
Hexachlorobutadiene	ND	5.0						
Hexachloroethane	ND	1.0						
Hexane	ND	5.0						
Iodomethane	ND	5.0						
Isopropylbenzene	ND	1.0						
m,p-Xylene	ND	2.0						
Methyl tert-butyl ether	ND	5.0						
Methylene chloride	ND	5.0						
n-Butylbenzene	ND	1.0						
n-Propylbenzene	ND	1.0						
Naphthalene	0.96	5.0						J
o-Xylene	ND	1.0						
p-Isopropyltoluene	ND	2.0						
sec-Butylbenzene	ND	2.0						
Styrene	ND	1.0						
tert-Butyl alcohol	ND	50						
tert-Butylbenzene	ND	2.0						
Tetrachloroethene	ND	2.0						
Tetrahydrofuran	ND	10						
Toluene	ND	1.0						
trans-1,2-Dichloroethene	ND	1.0						
trans-1,3-Dichloropropene	ND	1.0						
trans-1,4-Dichloro-2-butene	ND	5.0						
Trichloroethene	ND	1.0						
Trichlorofluoromethane	ND	1.0						
Vinyl acetate	ND	1.0						
Vinyl chloride	ND	1.0						
1,2-Dichloroethene, Total	ND	2.0						
1,3-Dichloropropene, Total	ND	2.0						
Xylenes, Total	ND	2.0						
Surr: 1,2-Dichloroethane-d4	*99.29*	0	*100*	0	*99.3*	*70-120*	0	
Surr: 4-Bromofluorobenzene	*98.38*	0	*100*	0	*98.4*	*75-120*	0	
Surr: Dibromofluoromethane	*101.1*	0	*100*	0	*101*	*85-115*	0	
Surr: Toluene-d8	*99.88*	0	*100*	0	*99.9*	*85-120*	0	

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89078** Instrument ID **VMS8** Method: **SW8260**

LCS Sample ID: **VLCSW1-110416-R89078** Units: **µg/L** Analysis Date: **4/16/2011 10:50 PM**

Client ID: Run ID: **VMS8_110416A** SeqNo: **1601653** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.91	1.0	20	0	105	80-130	0			
1,1,1-Trichloroethane	21.27	1.0	20	0	106	65-130	0			
1,1,2,2-Tetrachloroethane	22.91	1.0	20	0	115	65-130	0			
1,1,2-Trichloroethane	22.36	1.0	20	0	112	75-125	0			
1,1-Dichloroethane	22.12	1.0	20	0	111	70-135	0			
1,1-Dichloroethene	23.84	1.0	20	0	119	70-130	0			
1,1-Dichloropropene	21.06	1.0	20	0	105	75-130	0			
1,2,3-Trichlorobenzene	23.68	3.0	20	0	118	55-140	0			
1,2,3-Trichloropropane	22.75	1.0	20	0	114	75-125	0			
1,2,4-Trichlorobenzene	21.74	1.0	20	0	109	65-135	0			
1,2,4-Trimethylbenzene	23.08	1.0	20	0	115	75-130	0			
1,2-Dibromo-3-chloropropane	23.12	1.0	20	0	116	50-130	0			
1,2-Dibromoethane	23.46	1.0	20	0	117	80-120	0			
1,2-Dichlorobenzene	22.29	1.0	20	0	111	70-120	0			
1,2-Dichloroethane	21.92	1.0	20	0	110	70-130	0			
1,2-Dichloropropane	22.88	2.0	20	0	114	75-125	0			
1,3,5-Trimethylbenzene	23.43	1.0	20	0	117	75-130	0			
1,3-Dichlorobenzene	21.68	2.0	20	0	108	75-125	0			
1,3-Dichloropropane	22.62	1.0	20	0	113	75-125	0			
1,4-Dichlorobenzene	21.17	2.0	20	0	106	75-125	0			
2,2-Dichloropropane	18.99	1.0	20	0	95	70-135	0			
2-Butanone	9.56	5.0	20	0	47.8	30-150	0			
2-Chlorotoluene	22.56	2.0	20	0	113	75-125	0			
2-Hexanone	20.84	5.0	20	0	104	55-130	0			
4-Chlorotoluene	22.35	1.0	20	0	112	75-135	0			
4-Isopropyltoluene	22.56	1.0	20	0	113	75-135	0			
4-Methyl-2-pentanone	27.43	5.0	20	0	137	60-135	0			S
Acetone	16.22	20	20	0	81.1	40-140	0			J
Acrylonitrile	21.2	1.0	20	0	106	70-135	0			
Benzene	22.12	1.0	20	0	111	80-120	0			
Bromobenzene	22.06	1.0	20	0	110	75-125	0			
Bromochloromethane	23.05	1.0	20	0	115	65-130	0			
Bromodichloromethane	22.31	1.0	20	0	112	75-120	0			
Bromoform	22.58	1.0	20	0	113	70-130	0			
Carbon disulfide	25.12	2.5	20	0	126	35-165	0			
Carbon tetrachloride	20.55	1.0	20	0	103	65-140	0			
Chlorobenzene	22.27	1.0	20	0	111	80-120	0			
Chloroethane	18.78	1.0	20	0	93.9	60-135	0			
Chloroform	21.9	1.0	20	0	110	65-135	0			
Chloromethane	17.57	1.0	20	0	87.8	70-125	0			
cis-1,2-Dichloroethene	22	1.0	20	0	110	70-125	0			
cis-1,3-Dichloropropene	22.02	1.0	20	0	110	70-130	0			

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89078** Instrument ID **VMS8** Method: **SW8260**

Dibromochloromethane	22.66	1.0	20	0	113	60-135	0
Dibromomethane	22.53	1.0	20	0	113	75-125	0
Dichlorodifluoromethane	18.26	1.0	20	0	91.3	30-155	0
Ethylbenzene	22.67	1.0	20	0	113	75-125	0
Hexachlorobutadiene	24.97	5.0	20	0	125	50-140	0
Hexachloroethane	21.13	1.0	20	0	106	70-135	0
Iodomethane	21.17	5.0	20	0	106	70-135	0
Isopropylbenzene	21.45	1.0	20	0	107	75-125	0
m,p-Xylene	45.21	2.0	40	0	113	75-130	0
Methyl tert-butyl ether	21.09	5.0	20	0	105	65-125	0
Methylene chloride	20.72	5.0	20	0	104	55-140	0
n-Butylbenzene	22.9	1.0	20	0	114	70-135	0
n-Propylbenzene	22.42	1.0	20	0	112	70-130	0
Naphthalene	24.98	5.0	20	0	125	55-140	0
o-Xylene	22.81	1.0	20	0	114	80-120	0
p-Isopropyltoluene	22.56	2.0	20	0	113	75-130	0
sec-Butylbenzene	23.26	2.0	20	0	116	70-125	0
Styrene	21.33	1.0	20	0	107	65-135	0
tert-Butylbenzene	23.53	2.0	20	0	118	70-130	0
Tetrachloroethene	22.61	2.0	20	0	113	45-150	0
Tetrahydrofuran	17.92	10	20	0	89.6	70-135	0
Toluene	21.35	1.0	20	0	107	75-120	0
trans-1,2-Dichloroethene	22.87	1.0	20	0	114	60-140	0
trans-1,3-Dichloropropene	21.87	1.0	20	0	109	55-140	0
trans-1,4-Dichloro-2-butene	18.85	5.0	20	0	94.2	70-135	0
Trichloroethene	22.68	1.0	20	0	113	70-125	0
Trichlorofluoromethane	16.79	1.0	20	0	84	60-145	0
Vinyl chloride	20.14	1.0	20	0	101	50-145	0
Xylenes, Total	68.02	2.0	60	0	113	75-130	0
Surr: 1,2-Dichloroethane-d4	*98.58*	0	*100*	0	*98.6*	*70-120*	0
Surr: 4-Bromofluorobenzene	*100.5*	0	*100*	0	*101*	*75-120*	0
Surr: Dibromofluoromethane	*101.6*	0	*100*	0	*102*	*85-115*	0
Surr: Toluene-d8	*100.6*	0	*100*	0	*101*	*85-120*	0

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89078** Instrument ID **VMS8** Method: **SW8260**

LCSD Sample ID: **VLCSDW1-110416-R89078** Units: **µg/L** Analysis Date: **4/16/2011 11:17 PM**

Client ID: Run ID: **VMS8_110416A** SeqNo: **1601654** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	21.28	1.0	20	0	106	80-130	20.91	1.75	30	
1,1,1-Trichloroethane	22.32	1.0	20	0	112	65-130	21.27	4.82	30	
1,1,2,2-Tetrachloroethane	23.16	1.0	20	0	116	65-130	22.91	1.09	30	
1,1,2-Trichloroethane	22.49	1.0	20	0	112	75-125	22.36	0.58	30	
1,1-Dichloroethane	22.66	1.0	20	0	113	70-135	22.12	2.41	30	
1,1-Dichloroethene	24.81	1.0	20	0	124	70-130	23.84	3.99	30	
1,1-Dichloropropene	22.82	1.0	20	0	114	75-130	21.06	8.02	30	
1,2,3-Trichlorobenzene	22.44	3.0	20	0	112	55-140	23.68	5.38	30	
1,2,3-Trichloropropane	22.79	1.0	20	0	114	75-125	22.75	0.176	30	
1,2,4-Trichlorobenzene	21.44	1.0	20	0	107	65-135	21.74	1.39	30	
1,2,4-Trimethylbenzene	23.8	1.0	20	0	119	75-130	23.08	3.07	30	
1,2-Dibromo-3-chloropropane	22.3	1.0	20	0	112	50-130	23.12	3.61	30	
1,2-Dibromoethane	24.03	1.0	20	0	120	80-120	23.46	2.4	30	S
1,2-Dichlorobenzene	22.34	1.0	20	0	112	70-120	22.29	0.224	30	
1,2-Dichloroethane	22.53	1.0	20	0	113	70-130	21.92	2.74	30	
1,2-Dichloropropane	23.57	2.0	20	0	118	75-125	22.88	2.97	30	
1,3,5-Trimethylbenzene	24.06	1.0	20	0	120	75-130	23.43	2.65	30	
1,3-Dichlorobenzene	22.25	2.0	20	0	111	75-125	21.68	2.6	30	
1,3-Dichloropropane	23.16	1.0	20	0	116	75-125	22.62	2.36	30	
1,4-Dichlorobenzene	21.88	2.0	20	0	109	75-125	21.17	3.3	30	
2,2-Dichloropropane	19.19	1.0	20	0	96	70-135	18.99	1.05	30	
2-Butanone	8.97	5.0	20	0	44.8	30-150	9.56	6.37	30	
2-Chlorotoluene	23.19	2.0	20	0	116	75-125	22.56	2.75	30	
2-Hexanone	21.2	5.0	20	0	106	55-130	20.84	1.71	30	
4-Chlorotoluene	23.16	1.0	20	0	116	75-135	22.35	3.56	30	
4-Isopropyltoluene	23.55	1.0	20	0	118	75-135	22.56	4.29	30	
4-Methyl-2-pentanone	28.01	5.0	20	0	140	60-135	27.43	2.09	30	S
Acetone	16.38	20	20	0	81.9	40-140	16.22	0	30	J
Acrylonitrile	21.13	1.0	20	0	106	70-135	21.2	0.331	30	
Benzene	23.02	1.0	20	0	115	80-120	22.12	3.99	30	
Bromobenzene	22.59	1.0	20	0	113	75-125	22.06	2.37	30	
Bromochloromethane	23.43	1.0	20	0	117	65-130	23.05	1.64	30	
Bromodichloromethane	22.86	1.0	20	0	114	75-120	22.31	2.44	30	
Bromoform	22.65	1.0	20	0	113	70-130	22.58	0.31	30	
Carbon disulfide	26	2.5	20	0	130	35-165	25.12	3.44	30	
Carbon tetrachloride	21.36	1.0	20	0	107	65-140	20.55	3.87	30	
Chlorobenzene	22.83	1.0	20	0	114	80-120	22.27	2.48	30	
Chloroethane	19.7	1.0	20	0	98.5	60-135	18.78	4.78	30	
Chloroform	22.4	1.0	20	0	112	65-135	21.9	2.26	30	
Chloromethane	17.83	1.0	20	0	89.2	70-125	17.57	1.47	30	
cis-1,2-Dichloroethene	22.51	1.0	20	0	113	70-125	22	2.29	30	
cis-1,3-Dichloropropene	22.68	1.0	20	0	113	70-130	22.02	2.95	30	

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89078** Instrument ID **VMS8** Method: **SW8260**

Dibromochloromethane	22.7	1.0	20	0	114	60-135	22.66	0.176	30
Dibromomethane	22.99	1.0	20	0	115	75-125	22.53	2.02	30
Dichlorodifluoromethane	18.47	1.0	20	0	92.4	30-155	18.26	1.14	30
Ethylbenzene	23.51	1.0	20	0	118	75-125	22.67	3.64	30
Hexachlorobutadiene	24.99	5.0	20	0	125	50-140	24.97	0.0801	30
Hexachloroethane	21.05	1.0	20	0	105	70-135	21.13	0.379	30
Iodomethane	22.07	5.0	20	0	110	70-135	21.17	4.16	30
Isopropylbenzene	22.37	1.0	20	0	112	75-125	21.45	4.2	30
m,p-Xylene	46.9	2.0	40	0	117	75-130	45.21	3.67	30
Methyl tert-butyl ether	21.41	5.0	20	0	107	65-125	21.09	1.51	30
Methylene chloride	21.73	5.0	20	0	109	55-140	20.72	4.76	30
n-Butylbenzene	23.68	1.0	20	0	118	70-135	22.9	3.35	30
n-Propylbenzene	23.35	1.0	20	0	117	70-130	22.42	4.06	30
Naphthalene	24	5.0	20	0	120	55-140	24.98	4	30
o-Xylene	23.64	1.0	20	0	118	80-120	22.81	3.57	30
p-Isopropyltoluene	23.55	2.0	20	0	118	75-130	22.56	4.29	30
sec-Butylbenzene	24.35	2.0	20	0	122	70-125	23.26	4.58	30
Styrene	21.76	1.0	20	0	109	65-135	21.33	2	30
tert-Butylbenzene	24.4	2.0	20	0	122	70-130	23.53	3.63	30
Tetrachloroethene	23.46	2.0	20	0	117	45-150	22.61	3.69	30
Tetrahydrofuran	17.77	10	20	0	88.8	70-135	17.92	0.841	30
Toluene	22.03	1.0	20	0	110	75-120	21.35	3.14	30
trans-1,2-Dichloroethene	23.85	1.0	20	0	119	60-140	22.87	4.2	30
trans-1,3-Dichloropropene	22.08	1.0	20	0	110	55-140	21.87	0.956	30
trans-1,4-Dichloro-2-butene	18.78	5.0	20	0	93.9	70-135	18.85	0.372	30
Trichloroethene	23.81	1.0	20	0	119	70-125	22.68	4.86	30
Trichlorofluoromethane	17.65	1.0	20	0	88.2	60-145	16.79	4.99	30
Vinyl chloride	20.64	1.0	20	0	103	50-145	20.14	2.45	30
Xylenes, Total	70.54	2.0	60	0	118	75-130	68.02	3.64	30
Surr: 1,2-Dichloroethane-d4	*99.25*	0	*100*	0	*99.2*	*70-120*	98.58	*0.677*	*30*
Surr: 4-Bromofluorobenzene	*101.5*	0	*100*	0	*101*	*75-120*	100.5	*0.941*	*30*
Surr: Dibromofluoromethane	*101.4*	0	*100*	0	*101*	*85-115*	101.6	*0.118*	*30*
Surr: Toluene-d8	*101*	0	*100*	0	*101*	*85-120*	100.6	*0.387*	*30*

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89078** Instrument ID **VMS8** Method: **SW8260**

MS Sample ID: **1104361-04C MS** Units: **µg/L** Analysis Date: **4/17/2011 08:46 AM**

Client ID: Run ID: **VMS8_110416A** SeqNo: **1601666** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	24.9	1.0	25	0	99.6	80-130	0			
1,1,1-Trichloroethane	26.42	1.0	25	0	106	65-130	0			
1,1,2,2-Tetrachloroethane	26.59	1.0	25	0	106	65-130	0			
1,1,2-Trichloroethane	26.77	1.0	25	0	107	75-125	0			
1,1-Dichloroethane	27.16	1.0	25	0	109	70-135	0			
1,1-Dichloroethene	29.31	1.0	25	0	117	70-130	0			
1,1-Dichloropropene	28.18	1.0	25	0	113	75-130	0			
1,2,3-Trichlorobenzene	24.01	3.0	25	0	96	55-140	0			
1,2,3-Trichloropropane	25.41	1.0	25	0	102	75-125	0			
1,2,4-Trichlorobenzene	23.06	1.0	25	0	92.2	65-135	0			
1,2,4-Trimethylbenzene	26.51	1.0	25	0	106	75-130	0			
1,2-Dibromo-3-chloropropane	24.35	1.0	25	0	97.4	50-130	0			
1,2-Dibromoethane	27.78	1.0	25	0	111	80-120	0			
1,2-Dichlorobenzene	25.77	1.0	25	0	103	70-120	0			
1,2-Dichloroethane	24.79	1.0	25	0	99.2	70-130	0			
1,2-Dichloropropane	28.05	2.0	25	0	112	75-125	0			
1,3,5-Trimethylbenzene	27.18	1.0	25	0	109	75-130	0			
1,3-Dichlorobenzene	25.72	2.0	25	0	103	75-125	0			
1,3-Dichloropropane	26.61	1.0	25	0	106	75-125	0			
1,4-Dichlorobenzene	25.14	2.0	25	0	101	75-125	0			
2,2-Dichloropropane	18.38	1.0	25	0	73.5	70-135	0			
2-Butanone	22.56	5.0	25	0	90.2	30-150	0			
2-Chlorotoluene	26.67	2.0	25	0	107	75-125	0			
2-Hexanone	25.75	5.0	25	0	103	55-130	0			
4-Chlorotoluene	26.3	1.0	25	0	105	75-135	0			
4-Isopropyltoluene	27.7	1.0	25	0	111	75-135	0			
4-Methyl-2-pentanone	33.77	5.0	25	0	135	60-135	0			S
Acetone	21.49	20	25	0	86	40-140	0			
Acrylonitrile	24.09	1.0	25	0	96.4	70-135	0			
Benzene	27.77	1.0	25	0	111	80-120	0			
Bromobenzene	25.8	1.0	25	0	103	75-125	0			
Bromochloromethane	27.26	1.0	25	0	109	65-130	0			
Bromodichloromethane	25.7	1.0	25	0	103	75-120	0			
Bromoform	25.46	1.0	25	0	102	70-130	0			
Carbon disulfide	29.42	2.5	25	0	118	35-165	0			
Carbon tetrachloride	25.45	1.0	25	0	102	65-140	0			
Chlorobenzene	27.35	1.0	25	0	109	80-120	0			
Chloroethane	23.7	1.0	25	0	94.8	60-135	0			
Chloroform	26.23	1.0	25	0	105	65-135	0			
Chloromethane	21.55	1.0	25	0	86.2	70-125	0			
cis-1,2-Dichloroethene	26.84	1.0	25	0	107	70-125	0			
cis-1,3-Dichloropropene	25.3	1.0	25	0	101	70-130	0			

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89078** Instrument ID **VMS8** Method: **SW8260**

Dibromochloromethane	26.05	1.0	25	0	104	60-135	0
Dibromomethane	26.16	1.0	25	0	105	75-125	0
Dichlorodifluoromethane	25.08	1.0	25	0	100	30-155	0
Ethylbenzene	28.19	1.0	25	0	113	75-125	0
Hexachlorobutadiene	26.37	5.0	25	0	105	50-140	0
Hexachloroethane	24.45	1.0	25	0	97.8	70-135	0
Iodomethane	22.3	5.0	25	0	89.2	70-135	0
Isopropylbenzene	26.58	1.0	25	0	106	75-125	0
m,p-Xylene	55.19	2.0	50	0	110	75-130	0
Methyl tert-butyl ether	25.2	5.0	25	0	101	65-125	0
Methylene chloride	24.22	5.0	25	0	96.9	55-140	0
n-Butylbenzene	27.37	1.0	25	0	109	70-135	0
n-Propylbenzene	27.55	1.0	25	0	110	70-130	0
Naphthalene	24.62	5.0	25	0	98.5	55-140	0
o-Xylene	27.75	1.0	25	0	111	80-120	0
p-Isopropyltoluene	27.7	2.0	25	0	111	75-130	0
sec-Butylbenzene	28.93	2.0	25	0	116	70-125	0
Styrene	25.08	1.0	25	0	100	65-135	0
tert-Butylbenzene	28.33	2.0	25	0	113	70-130	0
Tetrachloroethene	28.38	2.0	25	0	114	45-150	0
Tetrahydrofuran	21.09	10	25	0	84.4	70-135	0
Toluene	26.73	1.0	25	0	107	75-120	0
trans-1,2-Dichloroethene	28.31	1.0	25	0	113	60-140	0
trans-1,3-Dichloropropene	24.27	1.0	25	0	97.1	55-140	0
trans-1,4-Dichloro-2-butene	19.23	5.0	25	0	76.9	70-135	0
Trichloroethene	29.35	1.0	25	0	117	70-125	0
Trichlorofluoromethane	21.14	1.0	25	0	84.6	60-145	0
Vinyl chloride	27.01	1.0	25	0	108	50-145	0
Xylenes, Total	82.94	2.0	75	0	111	75-130	0
Surr: 1,2-Dichloroethane-d4	*91*	0	*100*	0	*91*	*70-120*	0
Surr: 4-Bromofluorobenzene	*99.53*	0	*100*	0	*99.5*	*75-120*	0
Surr: Dibromofluoromethane	*98.49*	0	*100*	0	*98.5*	*85-115*	0
Surr: Toluene-d8	*100.3*	0	*100*	0	*100*	*85-120*	0

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89078** Instrument ID **VMS8** Method: **SW8260**

MSD Sample ID: **1104361-04C MSD** Units: **µg/L** Analysis Date: **4/17/2011 09:13 AM**

Client ID: Run ID: **VMS8_110416A** SeqNo: **1601667** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	24.73	1.0	25	0	98.9	80-130	24.9	0.685	30	
1,1,1-Trichloroethane	26.36	1.0	25	0	105	65-130	26.42	0.227	30	
1,1,2,2-Tetrachloroethane	27.35	1.0	25	0	109	65-130	26.59	2.82	30	
1,1,2-Trichloroethane	26.31	1.0	25	0	105	75-125	26.77	1.73	30	
1,1-Dichloroethane	27.34	1.0	25	0	109	70-135	27.16	0.661	30	
1,1-Dichloroethene	29.04	1.0	25	0	116	70-130	29.31	0.925	30	
1,1-Dichloropropene	27.81	1.0	25	0	111	75-130	28.18	1.32	30	
1,2,3-Trichlorobenzene	27.14	3.0	25	0	109	55-140	24.01	12.2	30	
1,2,3-Trichloropropane	26.29	1.0	25	0	105	75-125	25.41	3.4	30	
1,2,4-Trichlorobenzene	25.3	1.0	25	0	101	65-135	23.06	9.26	30	
1,2,4-Trimethylbenzene	27.06	1.0	25	0	108	75-130	26.51	2.05	30	
1,2-Dibromo-3-chloropropane	26.69	1.0	25	0	107	50-130	24.35	9.17	30	
1,2-Dibromoethane	28.18	1.0	25	0	113	80-120	27.78	1.43	30	
1,2-Dichlorobenzene	26.38	1.0	25	0	106	70-120	25.77	2.34	30	
1,2-Dichloroethane	24.86	1.0	25	0	99.4	70-130	24.79	0.282	30	
1,2-Dichloropropane	28.05	2.0	25	0	112	75-125	28.05	0	30	
1,3,5-Trimethylbenzene	27.88	1.0	25	0	112	75-130	27.18	2.54	30	
1,3-Dichlorobenzene	26.28	2.0	25	0	105	75-125	25.72	2.15	30	
1,3-Dichloropropane	26.61	1.0	25	0	106	75-125	26.61	0	30	
1,4-Dichlorobenzene	25.49	2.0	25	0	102	75-125	25.14	1.38	30	
2,2-Dichloropropane	18.53	1.0	25	0	74.1	70-135	18.38	0.813	30	
2-Butanone	24.18	5.0	25	0	96.7	30-150	22.56	6.93	30	
2-Chlorotoluene	27.08	2.0	25	0	108	75-125	26.67	1.53	30	
2-Hexanone	26.64	5.0	25	0	107	55-130	25.75	3.4	30	
4-Chlorotoluene	26.52	1.0	25	0	106	75-135	26.3	0.833	30	
4-Isopropyltoluene	27.97	1.0	25	0	112	75-135	27.7	0.97	30	
4-Methyl-2-pentanone	34.6	5.0	25	0	138	60-135	33.77	2.43	30	S
Acetone	21.95	20	25	0	87.8	40-140	21.49	2.12	30	
Acrylonitrile	25.21	1.0	25	0	101	70-135	24.09	4.54	30	
Benzene	27.92	1.0	25	0	112	80-120	27.77	0.539	30	
Bromobenzene	25.78	1.0	25	0	103	75-125	25.8	0.0775	30	
Bromochloromethane	27.36	1.0	25	0	109	65-130	27.26	0.366	30	
Bromodichloromethane	26.12	1.0	25	0	104	75-120	25.7	1.62	30	
Bromoform	26.21	1.0	25	0	105	70-130	25.46	2.9	30	
Carbon disulfide	29.98	2.5	25	0	120	35-165	29.42	1.89	30	
Carbon tetrachloride	25.58	1.0	25	0	102	65-140	25.45	0.51	30	
Chlorobenzene	27.17	1.0	25	0	109	80-120	27.35	0.66	30	
Chloroethane	23.31	1.0	25	0	93.2	60-135	23.7	1.66	30	
Chloroform	26.36	1.0	25	0	105	65-135	26.23	0.494	30	
Chloromethane	21.6	1.0	25	0	86.4	70-125	21.55	0.232	30	
cis-1,2-Dichloroethene	26.78	1.0	25	0	107	70-125	26.84	0.224	30	
cis-1,3-Dichloropropene	25.3	1.0	25	0	101	70-130	25.3	0	30	

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89078** Instrument ID **VMS8** Method: **SW8260**

Dibromochloromethane	26.24	1.0	25	0	105	60-135	26.05	0.727	30
Dibromomethane	26.44	1.0	25	0	106	75-125	26.16	1.06	30
Dichlorodifluoromethane	24.81	1.0	25	0	99.2	30-155	25.08	1.08	30
Ethylbenzene	28.02	1.0	25	0	112	75-125	28.19	0.605	30
Hexachlorobutadiene	28.96	5.0	25	0	116	50-140	26.37	9.36	30
Hexachloroethane	24.92	1.0	25	0	99.7	70-135	24.45	1.9	30
Iodomethane	25.51	5.0	25	0	102	70-135	22.3	13.4	30
Isopropylbenzene	26.5	1.0	25	0	106	75-125	26.58	0.301	30
m,p-Xylene	55.25	2.0	50	0	110	75-130	55.19	0.109	30
Methyl tert-butyl ether	25.51	5.0	25	0	102	65-125	25.2	1.22	30
Methylene chloride	24.26	5.0	25	0	97	55-140	24.22	0.165	30
n-Butylbenzene	27.87	1.0	25	0	111	70-135	27.37	1.81	30
n-Propylbenzene	27.8	1.0	25	0	111	70-130	27.55	0.903	30
Naphthalene	28.6	5.0	25	0	114	55-140	24.62	15	30
o-Xylene	27.67	1.0	25	0	111	80-120	27.75	0.289	30
p-Isopropyltoluene	27.97	2.0	25	0	112	75-130	27.7	0.97	30
sec-Butylbenzene	29.03	2.0	25	0	116	70-125	28.93	0.345	30
Styrene	24.98	1.0	25	0	99.9	65-135	25.08	0.4	30
tert-Butylbenzene	28.26	2.0	25	0	113	70-130	28.33	0.247	30
Tetrachloroethene	28.6	2.0	25	0	114	45-150	28.38	0.772	30
Tetrahydrofuran	20.82	10	25	0	83.3	70-135	21.09	1.29	30
Toluene	26.45	1.0	25	0	106	75-120	26.73	1.05	30
trans-1,2-Dichloroethene	28.18	1.0	25	0	113	60-140	28.31	0.46	30
trans-1,3-Dichloropropene	24.49	1.0	25	0	98	55-140	24.27	0.902	30
trans-1,4-Dichloro-2-butene	19.65	5.0	25	0	78.6	70-135	19.23	2.16	30
Trichloroethene	29.18	1.0	25	0	117	70-125	29.35	0.581	30
Trichlorofluoromethane	21.18	1.0	25	0	84.7	60-145	21.14	0.189	30
Vinyl chloride	26.95	1.0	25	0	108	50-145	27.01	0.222	30
Xylenes, Total	82.92	2.0	75	0	111	75-130	82.94	0.0241	30
Surr: 1,2-Dichloroethane-d4	*91.82*	0	*100*	0	*91.8*	*70-120*	91	*0.897*	*30*
Surr: 4-Bromofluorobenzene	*97.55*	0	*100*	0	*97.6*	*75-120*	99.53	*2.01*	*30*
Surr: Dibromofluoromethane	*98.73*	0	*100*	0	*98.7*	*85-115*	98.49	*0.243*	*30*
Surr: Toluene-d8	*99.56*	0	*100*	0	*99.6*	*85-120*	100.3	*0.721*	*30*

The following samples were analyzed in this batch:

1104422-01A	1104422-02A	1104422-03A
1104422-04A	1104422-05A	1104422-06A
1104422-07A	1104422-08A	1104422-09A

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89079** Instrument ID **VMS6** Method: **SW8260**

MBLK Sample ID: **VBLKW1-110417-R89079** Units: **µg/L** Analysis Date: **4/17/2011 11:13 AM**

Client ID: Run ID: **VMS6_110417A** SeqNo: **1605673** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1,2-Trichlorotrifluoroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,1-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	3.0								
1,2,3-Trichloropropane	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	1.0								
1,2-Dibromoethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	2.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,3-Dichlorobenzene	ND	2.0								
1,3-Dichloropropane	ND	1.0								
1,4-Dichlorobenzene	ND	2.0								
2,2-Dichloropropane	ND	1.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	2.0								
2-Hexanone	ND	5.0								
2-Methylnaphthalene	ND	10								
4-Chlorotoluene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	20								
Acrylonitrile	ND	1.0								
Benzene	ND	1.0								
Bromobenzene	ND	1.0								
Bromochloromethane	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Carbon disulfide	ND	2.5								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								

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

Batch ID: **R89079** Instrument ID **VMS6** Method: **SW8260**

cis-1,2-Dichloroethene	ND	1.0					
cis-1,3-Dichloropropene	ND	1.0					
Dibromochloromethane	ND	1.0					
Dibromomethane	ND	1.0					
Dichlorodifluoromethane	ND	1.0					
Diethyl ether	ND	10					
Diisopropyl ether	ND	5.0					
Ethyl tert butyl ether	ND	5.0					
Ethylbenzene	ND	1.0					
Hexachlorobutadiene	ND	5.0					
Hexachloroethane	ND	1.0					
Hexane	ND	5.0					
Iodomethane	ND	5.0					
Isopropylbenzene	ND	1.0					
m,p-Xylene	ND	2.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
n-Butylbenzene	ND	1.0					
n-Propylbenzene	ND	1.0					
Naphthalene	ND	5.0					
o-Xylene	ND	1.0					
p-Isopropyltoluene	ND	2.0					
sec-Butylbenzene	ND	2.0					
Styrene	ND	1.0					
tert-Butyl alcohol	ND	50					
tert-Butylbenzene	ND	2.0					
Tetrachloroethene	ND	2.0					
Tetrahydrofuran	ND	10					
Toluene	ND	1.0					
trans-1,2-Dichloroethene	ND	1.0					
trans-1,3-Dichloropropene	ND	1.0					
trans-1,4-Dichloro-2-butene	ND	5.0					
Trichloroethene	ND	1.0					
Trichlorofluoromethane	ND	1.0					
Vinyl acetate	ND	1.0					
Vinyl chloride	ND	1.0					
1,2-Dichloroethene, Total	ND	2.0					
1,3-Dichloropropene, Total	ND	2.0					
Xylenes, Total	ND	2.0					
Surr: 1,2-Dichloroethane-d4	*102.2*	0	*100*	0	*102*	*70-120*	0
Surr: 4-Bromofluorobenzene	*95.97*	0	*100*	0	*96*	*75-120*	0
Surr: Dibromofluoromethane	*99.33*	0	*100*	0	*99.3*	*85-115*	0
Surr: Toluene-d8	*100.5*	0	*100*	0	*100*	*85-120*	0

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89079** Instrument ID **VMS6** Method: **SW8260**

LCS Sample ID: **VLCSW1-110417-R89079** Units: **µg/L** Analysis Date: **4/17/2011 09:57 AM**

Client ID: Run ID: **VMS6_110417A** SeqNo: **1601706** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.3	1.0	20	0	102	80-130	0			
1,1,1-Trichloroethane	19.99	1.0	20	0	100	65-130	0			
1,1,2,2-Tetrachloroethane	20.9	1.0	20	0	104	65-130	0			
1,1,2-Trichloroethane	20.96	1.0	20	0	105	75-125	0			
1,1-Dichloroethane	20.17	1.0	20	0	101	70-135	0			
1,1-Dichloroethene	20.39	1.0	20	0	102	70-130	0			
1,1-Dichloropropene	19.79	1.0	20	0	99	75-130	0			
1,2,3-Trichlorobenzene	26.85	3.0	20	0	134	55-140	0			
1,2,3-Trichloropropane	21.01	1.0	20	0	105	75-125	0			
1,2,4-Trichlorobenzene	27.64	1.0	20	0	138	65-135	0			S
1,2,4-Trimethylbenzene	20.83	1.0	20	0	104	75-130	0			
1,2-Dibromo-3-chloropropane	25.51	1.0	20	0	128	50-130	0			
1,2-Dibromoethane	20.58	1.0	20	0	103	80-120	0			
1,2-Dichlorobenzene	22.89	1.0	20	0	114	70-120	0			
1,2-Dichloroethane	21.25	1.0	20	0	106	70-130	0			
1,2-Dichloropropane	21.01	2.0	20	0	105	75-125	0			
1,3,5-Trimethylbenzene	21.21	1.0	20	0	106	75-130	0			
1,3-Dichlorobenzene	22.32	2.0	20	0	112	75-125	0			
1,3-Dichloropropane	20.57	1.0	20	0	103	75-125	0			
1,4-Dichlorobenzene	21.91	2.0	20	0	110	75-125	0			
2,2-Dichloropropane	20.15	1.0	20	0	101	70-135	0			
2-Butanone	17.85	5.0	20	0	89.2	30-150	0			
2-Chlorotoluene	22.22	2.0	20	0	111	75-125	0			
2-Hexanone	18.19	5.0	20	0	91	55-130	0			
4-Chlorotoluene	22.1	1.0	20	0	110	75-135	0			
4-Isopropyltoluene	20.72	1.0	20	0	104	75-135	0			
4-Methyl-2-pentanone	24.16	5.0	20	0	121	60-135	0			
Acetone	22.36	20	20	0	112	40-140	0			
Acrylonitrile	20.7	1.0	20	0	104	70-135	0			
Benzene	21.91	1.0	20	0	110	80-120	0			
Bromobenzene	21.03	1.0	20	0	105	75-125	0			
Bromochloromethane	22.39	1.0	20	0	112	65-130	0			
Bromodichloromethane	20.35	1.0	20	0	102	75-120	0			
Bromoform	21.88	1.0	20	0	109	70-130	0			
Carbon disulfide	20.67	2.5	20	0	103	35-165	0			
Carbon tetrachloride	19.04	1.0	20	0	95.2	65-140	0			
Chlorobenzene	22.16	1.0	20	0	111	80-120	0			
Chloroethane	18.95	1.0	20	0	94.8	60-135	0			
Chloroform	20.91	1.0	20	0	105	65-135	0			
Chloromethane	20.6	1.0	20	0	103	70-125	0			
cis-1,2-Dichloroethene	21.82	1.0	20	0	109	70-125	0			
cis-1,3-Dichloropropene	20.89	1.0	20	0	104	70-130	0			

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89079** Instrument ID **VMS6** Method: **SW8260**

Dibromochloromethane	19.97	1.0	20	0	99.8	60-135	0
Dibromomethane	20.82	1.0	20	0	104	75-125	0
Dichlorodifluoromethane	14.87	1.0	20	0	74.4	30-155	0
Ethylbenzene	20.95	1.0	20	0	105	75-125	0
Hexachlorobutadiene	25.6	5.0	20	0	128	50-140	0
Hexachloroethane	20.98	1.0	20	0	105	70-135	0
Iodomethane	20.84	5.0	20	0	104	70-135	0
Isopropylbenzene	20.87	1.0	20	0	104	75-125	0
m,p-Xylene	44.88	2.0	40	0	112	75-130	0
Methyl tert-butyl ether	21.21	5.0	20	0	106	65-125	0
Methylene chloride	21.15	5.0	20	0	106	55-140	0
n-Butylbenzene	21.57	1.0	20	0	108	70-135	0
n-Propylbenzene	22.24	1.0	20	0	111	70-130	0
Naphthalene	24.24	5.0	20	0	121	55-140	0
o-Xylene	20.95	1.0	20	0	105	80-120	0
p-Isopropyltoluene	20.72	2.0	20	0	104	75-130	0
sec-Butylbenzene	21.29	2.0	20	0	106	70-125	0
Styrene	20.69	1.0	20	0	103	65-135	0
tert-Butylbenzene	21.15	2.0	20	0	106	70-130	0
Tetrachloroethene	21.04	2.0	20	0	105	45-150	0
Tetrahydrofuran	20.9	10	20	0	104	70-135	0
Toluene	20.43	1.0	20	0	102	75-120	0
trans-1,2-Dichloroethene	21.05	1.0	20	0	105	60-140	0
trans-1,3-Dichloropropene	21.59	1.0	20	0	108	55-140	0
trans-1,4-Dichloro-2-butene	19.4	5.0	20	0	97	70-135	0
Trichloroethene	20.84	1.0	20	0	104	70-125	0
Trichlorofluoromethane	15.39	1.0	20	0	77	60-145	0
Vinyl chloride	20.09	1.0	20	0	100	50-145	0
Xylenes, Total	65.83	2.0	60	0	110	75-130	0
Surr: 1,2-Dichloroethane-d4	*98.13*	0	*100*	0	*98.1*	*70-120*	0
Surr: 4-Bromofluorobenzene	*100.1*	0	*100*	0	*100*	*75-120*	0
Surr: Dibromofluoromethane	*100.6*	0	*100*	0	*101*	*85-115*	0
Surr: Toluene-d8	*97.62*	0	*100*	0	*97.6*	*85-120*	0

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89079** Instrument ID **VMS6** Method: **SW8260**

LCSD Sample ID: **VLCSDW1-110417-R89079** Units: **µg/L** Analysis Date: **4/17/2011 10:22 AM**

Client ID: Run ID: **VMS6_110417A** SeqNo: **1601707** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.21	1.0	20	0	101	80-130	20.3	0.444	30	
1,1,1-Trichloroethane	20.16	1.0	20	0	101	65-130	19.99	0.847	30	
1,1,2,2-Tetrachloroethane	22.12	1.0	20	0	111	65-130	20.9	5.67	30	
1,1,2-Trichloroethane	21.36	1.0	20	0	107	75-125	20.96	1.89	30	
1,1-Dichloroethane	20.32	1.0	20	0	102	70-135	20.17	0.741	30	
1,1-Dichloroethene	21.09	1.0	20	0	105	70-130	20.39	3.38	30	
1,1-Dichloropropene	20.18	1.0	20	0	101	75-130	19.79	1.95	30	
1,2,3-Trichlorobenzene	24.41	3.0	20	0	122	55-140	26.85	9.52	30	
1,2,3-Trichloropropane	21.65	1.0	20	0	108	75-125	21.01	3	30	
1,2,4-Trichlorobenzene	25.09	1.0	20	0	125	65-135	27.64	9.67	30	
1,2,4-Trimethylbenzene	20.8	1.0	20	0	104	75-130	20.83	0.144	30	
1,2-Dibromo-3-chloropropane	25.14	1.0	20	0	126	50-130	25.51	1.46	30	
1,2-Dibromoethane	20.66	1.0	20	0	103	80-120	20.58	0.388	30	
1,2-Dichlorobenzene	22.83	1.0	20	0	114	70-120	22.89	0.262	30	
1,2-Dichloroethane	21.06	1.0	20	0	105	70-130	21.25	0.898	30	
1,2-Dichloropropane	21.27	2.0	20	0	106	75-125	21.01	1.23	30	
1,3,5-Trimethylbenzene	21.2	1.0	20	0	106	75-130	21.21	0.0472	30	
1,3-Dichlorobenzene	22.04	2.0	20	0	110	75-125	22.32	1.26	30	
1,3-Dichloropropane	20.95	1.0	20	0	105	75-125	20.57	1.83	30	
1,4-Dichlorobenzene	21.97	2.0	20	0	110	75-125	21.91	0.273	30	
2,2-Dichloropropane	21.18	1.0	20	0	106	70-135	20.15	4.98	30	
2-Butanone	18.94	5.0	20	0	94.7	30-150	17.85	5.93	30	
2-Chlorotoluene	22.7	2.0	20	0	114	75-125	22.22	2.14	30	
2-Hexanone	19.39	5.0	20	0	97	55-130	18.19	6.39	30	
4-Chlorotoluene	22.65	1.0	20	0	113	75-135	22.1	2.46	30	
4-Isopropyltoluene	19.88	1.0	20	0	99.4	75-135	20.72	4.14	30	
4-Methyl-2-pentanone	25.61	5.0	20	0	128	60-135	24.16	5.83	30	
Acetone	20.32	20	20	0	102	40-140	22.36	9.56	30	
Acrylonitrile	21.46	1.0	20	0	107	70-135	20.7	3.61	30	
Benzene	22.29	1.0	20	0	111	80-120	21.91	1.72	30	
Bromobenzene	21.28	1.0	20	0	106	75-125	21.03	1.18	30	
Bromochloromethane	22.11	1.0	20	0	111	65-130	22.39	1.26	30	
Bromodichloromethane	20.09	1.0	20	0	100	75-120	20.35	1.29	30	
Bromoform	22.4	1.0	20	0	112	70-130	21.88	2.35	30	
Carbon disulfide	21.17	2.5	20	0	106	35-165	20.67	2.39	30	
Carbon tetrachloride	19.23	1.0	20	0	96.2	65-140	19.04	0.993	30	
Chlorobenzene	22.32	1.0	20	0	112	80-120	22.16	0.719	30	
Chloroethane	19.6	1.0	20	0	98	60-135	18.95	3.37	30	
Chloroform	21.24	1.0	20	0	106	65-135	20.91	1.57	30	
Chloromethane	20.63	1.0	20	0	103	70-125	20.6	0.146	30	
cis-1,2-Dichloroethene	21.78	1.0	20	0	109	70-125	21.82	0.183	30	
cis-1,3-Dichloropropene	20.93	1.0	20	0	105	70-130	20.89	0.191	30	

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89079** Instrument ID **VMS6** Method: **SW8260**

Dibromochloromethane	20.12	1.0	20	0	101	60-135	19.97	0.748	30
Dibromomethane	20.73	1.0	20	0	104	75-125	20.82	0.433	30
Dichlorodifluoromethane	15.58	1.0	20	0	77.9	30-155	14.87	4.66	30
Ethylbenzene	21.37	1.0	20	0	107	75-125	20.95	1.98	30
Hexachlorobutadiene	22.71	5.0	20	0	114	50-140	25.6	12	30
Hexachloroethane	19.95	1.0	20	0	99.8	70-135	20.98	5.03	30
Iodomethane	21.96	5.0	20	0	110	70-135	20.84	5.23	30
Isopropylbenzene	21.26	1.0	20	0	106	75-125	20.87	1.85	30
m,p-Xylene	45.5	2.0	40	0	114	75-130	44.88	1.37	30
Methyl tert-butyl ether	21.68	5.0	20	0	108	65-125	21.21	2.19	30
Methylene chloride	21.18	5.0	20	0	106	55-140	21.15	0.142	30
n-Butylbenzene	20.11	1.0	20	0	101	70-135	21.57	7.01	30
n-Propylbenzene	22.64	1.0	20	0	113	70-130	22.24	1.78	30
Naphthalene	22.44	5.0	20	0	112	55-140	24.24	7.71	30
o-Xylene	21.21	1.0	20	0	106	80-120	20.95	1.23	30
p-Isopropyltoluene	19.88	2.0	20	0	99.4	75-130	20.72	4.14	30
sec-Butylbenzene	21.03	2.0	20	0	105	70-125	21.29	1.23	30
Styrene	20.89	1.0	20	0	104	65-135	20.69	0.962	30
tert-Butylbenzene	21.18	2.0	20	0	106	70-130	21.15	0.142	30
Tetrachloroethene	21.5	2.0	20	0	108	45-150	21.04	2.16	30
Tetrahydrofuran	22.23	10	20	0	111	70-135	20.9	6.17	30
Toluene	20.71	1.0	20	0	104	75-120	20.43	1.36	30
trans-1,2-Dichloroethene	21.59	1.0	20	0	108	60-140	21.05	2.53	30
trans-1,3-Dichloropropene	21.89	1.0	20	0	109	55-140	21.59	1.38	30
trans-1,4-Dichloro-2-butene	19.94	5.0	20	0	99.7	70-135	19.4	2.75	30
Trichloroethene	20.95	1.0	20	0	105	70-125	20.84	0.526	30
Trichlorofluoromethane	15.47	1.0	20	0	77.4	60-145	15.39	0.518	30
Vinyl chloride	20.62	1.0	20	0	103	50-145	20.09	2.6	30
Xylenes, Total	66.71	2.0	60	0	111	75-130	65.83	1.33	30
Surr: 1,2-Dichloroethane-d4	*99.4*	0	*100*	0	*99.4*	*70-120*	98.13	*1.29*	*30*
Surr: 4-Bromofluorobenzene	*100.7*	0	*100*	0	*101*	*75-120*	100.1	*0.568*	*30*
Surr: Dibromofluoromethane	*99.96*	0	*100*	0	*100*	*85-115*	100.6	*0.598*	*30*
Surr: Toluene-d8	*96.86*	0	*100*	0	*96.9*	*85-120*	97.62	*0.782*	*30*

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89079** Instrument ID **VMS6** Method: **SW8260**

MS Sample ID: **1104422-01A MS** Units: **µg/Kg** Analysis Date: **4/17/2011 08:12 PM**

Client ID: **RO-S-VS-21** Run ID: **VMS6_110417A** SeqNo: **1602067** Prep Date: DF: **10000**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	180300	15,000	200000	0	90.2	75-125	0			
1,1,1-Trichloroethane	204600	10,000	200000	0	102	70-135	0			
1,1,2,2-Tetrachloroethane	410400	20,000	200000	0	205	55-130	0			S
1,1,2-Trichloroethane	203600	20,000	200000	0	102	60-125	0			
1,1-Dichloroethane	199700	10,000	200000	0	99.8	75-125	0			
1,1-Dichloroethene	206600	10,000	200000	0	103	65-135	0			
1,1-Dichloropropene	203400	10,000	200000	0	102	70-135	0			
1,2,3-Trichlorobenzene	295400	20,000	200000	0	148	60-135	0			S
1,2,3-Trichloropropane	364200	20,000	200000	0	182	65-130	0			S
1,2,4-Trichlorobenzene	383600	10,000	200000	0	192	65-130	0			S
1,2,4-Trimethylbenzene	4255000	10,000	200000	328700	1960	65-135	0			SE
1,2-Dibromo-3-chloropropane	220200	20,000	200000	0	110	40-135	0			
1,2-Dibromoethane	205300	15,000	200000	0	103	70-125	0			
1,2-Dichlorobenzene	320900	10,000	200000	0	160	75-120	0			S
1,2-Dichloroethane	207600	10,000	200000	0	104	70-135	0			
1,2-Dichloropropane	206600	35,000	200000	0	103	70-120	0			
1,3,5-Trimethylbenzene	1299000	10,000	200000	95900	602	65-135	0			SE
1,3-Dichlorobenzene	211400	10,000	200000	0	106	70-125	0			
1,3-Dichloropropane	200700	15,000	200000	0	100	75-125	0			
1,4-Dichlorobenzene	234300	10,000	200000	0	117	70-125	0			
2,2-Dichloropropane	191000	6,000	200000	0	95.5	65-135	0			
2-Butanone	202000	75,000	200000	0	101	30-160	0			
2-Chlorotoluene	619000	15,000	200000	0	310	70-130	0			S
2-Hexanone	255600	50,000	200000	0	128	45-145	0			
4-Chlorotoluene	336300	20,000	200000	0	168	75-125	0			S
4-Methyl-2-pentanone	258700	50,000	200000	0	129	45-145	0			
Acetone	207100	45,000	200000	0	104	20-160	0			
Acrylonitrile	257000	40,000	200000	0	128	70-135	0			
Benzene	219500	10,000	200000	0	110	75-125	0			
Bromobenzene	209400	15,000	200000	0	105	65-120	0			
Bromochloromethane	218600	15,000	200000	0	109	70-125	0			
Bromodichloromethane	187400	15,000	200000	0	93.7	70-130	0			
Bromoform	202200	10,000	200000	0	101	55-135	0			
Carbon disulfide	195500	15,000	200000	0	97.8	45-160	0			
Carbon tetrachloride	183100	10,000	200000	0	91.6	65-135	0			
Chlorobenzene	230500	15,000	200000	0	115	75-125	0			
Chloroethane	185100	30,000	200000	0	92.6	40-155	0			
Chloroform	210900	10,000	200000	0	105	70-125	0			
Chloromethane	181400	30,000	200000	0	90.7	50-130	0			
cis-1,2-Dichloroethene	198600	20,000	200000	0	99.3	65-125	0			
cis-1,3-Dichloropropene	199100	10,000	200000	0	99.6	70-125	0			
Dibromochloromethane	179000	20,000	200000	0	89.5	65-135	0			

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89079** Instrument ID **VMS6** Method: **SW8260**

Dibromomethane	205600	20,000	200000	0	103	75-130	0	
Dichlorodifluoromethane	191400	10,000	200000	0	95.7	35-135	0	
Ethylbenzene	2082000	20,000	200000	174900	954	75-125	0	SE
Hexachlorobutadiene	353500	10,000	200000	0	177	55-140	0	S
Hexachloroethane	154400	10,000	200000	0	77.2	70-135	0	
Iodomethane	174200	25,000	200000	0	87.1	70-135	0	
Isopropylbenzene	421400	10,000	200000	21400	200	75-130	0	S
m,p-Xylene	7718000	20,000	400000	711400	1750	80-125	0	SE
Methyl tert-butyl ether	220600	15,000	200000	0	110	75-125	0	
Methylene chloride	206700	20,000	200000	0	103	55-145	0	
n-Butylbenzene	770400	5,000	200000	49800	360	65-140	0	S
n-Propylbenzene	873800	20,000	200000	49800	412	65-135	0	S
Naphthalene	1660000	20,000	200000	64100	798	40-140	0	SE
o-Xylene	2886000	10,000	200000	250800	1320	75-125	0	SE
p-Isopropyltoluene	1969000	95,000	200000	159900	904	75-135	0	SE
sec-Butylbenzene	418600	10,000	200000	18600	200	65-130	0	S
Styrene	215300	15,000	200000	0	108	75-125	0	
tert-Butylbenzene	253800	15,000	200000	0	127	65-130	0	
Tetrachloroethene	209200	10,000	200000	0	105	64-140	0	
Tetrahydrofuran	236700	15,000	200000	0	118	70-135	0	
Toluene	1985000	15,000	200000	171800	907	70-125	0	SE
trans-1,2-Dichloroethene	209900	10,000	200000	0	105	65-135	0	
trans-1,3-Dichloropropene	193200	15,000	200000	0	96.6	65-125	0	
trans-1,4-Dichloro-2-butene	1101000	35,000	200000	0	551	70-135	0	SE
Trichloroethene	207600	10,000	200000	0	104	75-125	0	
Trichlorofluoromethane	140900	10,000	200000	0	70.4	25-185	0	
Vinyl chloride	200600	20,000	200000	0	100	60-125	0	
Xylenes, Total	10600000	30,000	600000	962200	1610	75-125	0	SE
Surr: 1,2-Dichloroethane-d4	*989900*	0	*1000000*	0	*99*	*70-120*	0	
Surr: 4-Bromofluorobenzene	*1328000*	0	*1000000*	0	*133*	*75-120*	0	*S*
Surr: Dibromofluoromethane	*984000*	0	*1000000*	0	*98.4*	*85-115*	0	
Surr: Toluene-d8	*946400*	0	*1000000*	0	*94.6*	*85-115*	0	

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89079** Instrument ID **VMS6** Method: **SW8260**

MSD Sample ID: **1104422-01A MSD** Units: **µg/Kg** Analysis Date: **4/17/2011 08:38 PM**

Client ID: **RO-S-VS-21** Run ID: **VMS6_110417A** SeqNo: **1602068** Prep Date: DF: **10000**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	180300	15,000	200000	0	90.2	75-125	180300	0	30	
1,1,1-Trichloroethane	199100	10,000	200000	0	99.6	70-135	204600	2.72	30	
1,1,2,2-Tetrachloroethane	399700	20,000	200000	0	200	55-130	410400	2.64	30	S
1,1,2-Trichloroethane	202300	20,000	200000	0	101	60-125	203600	0.641	30	
1,1-Dichloroethane	198900	10,000	200000	0	99.4	75-125	199700	0.401	30	
1,1-Dichloroethene	198100	10,000	200000	0	99	65-135	206600	4.2	30	
1,1-Dichloropropene	195500	10,000	200000	0	97.8	70-135	203400	3.96	30	
1,2,3-Trichlorobenzene	299800	20,000	200000	0	150	60-135	295400	1.48	30	S
1,2,3-Trichloropropane	371900	20,000	200000	0	186	65-130	364200	2.09	30	S
1,2,4-Trichlorobenzene	309800	10,000	200000	0	155	65-130	383600	21.3	30	S
1,2,4-Trimethylbenzene	4109000	10,000	200000	328700	1890	65-135	4255000	3.5	30	SE
1,2-Dibromo-3-chloropropane	236300	20,000	200000	0	118	40-135	220200	7.05	30	
1,2-Dibromoethane	208700	15,000	200000	0	104	70-125	205300	1.64	30	
1,2-Dichlorobenzene	301400	10,000	200000	0	151	75-120	320900	6.27	30	S
1,2-Dichloroethane	206600	10,000	200000	0	103	70-135	207600	0.483	30	
1,2-Dichloropropane	205700	35,000	200000	0	103	70-120	206600	0.437	30	
1,3,5-Trimethylbenzene	1252000	10,000	200000	95900	578	65-135	1299000	3.67	30	SE
1,3-Dichlorobenzene	207200	10,000	200000	0	104	70-125	211400	2.01	30	
1,3-Dichloropropane	199900	15,000	200000	0	100	75-125	200700	0.399	30	
1,4-Dichlorobenzene	214100	10,000	200000	0	107	70-125	234300	9.01	30	
2,2-Dichloropropane	189300	6,000	200000	0	94.6	65-135	191000	0.894	30	
2-Butanone	223700	75,000	200000	0	112	30-160	202000	10.2	30	
2-Chlorotoluene	596800	15,000	200000	0	298	70-130	619000	3.65	30	S
2-Hexanone	258000	50,000	200000	0	129	45-145	255600	0.935	30	
4-Chlorotoluene	329700	20,000	200000	0	165	75-125	336300	1.98	30	S
4-Methyl-2-pentanone	273500	50,000	200000	0	137	45-145	258700	5.56	30	
Acetone	219900	45,000	200000	0	110	20-160	207100	6	30	
Acrylonitrile	259200	40,000	200000	0	130	70-135	257000	0.852	30	
Benzene	215100	10,000	200000	0	108	75-125	219500	2.02	30	
Bromobenzene	207500	15,000	200000	0	104	65-120	209400	0.911	30	
Bromochloromethane	216900	15,000	200000	0	108	70-125	218600	0.781	30	
Bromodichloromethane	187300	15,000	200000	0	93.6	70-130	187400	0.0534	30	
Bromoform	200400	10,000	200000	0	100	55-135	202200	0.894	30	
Carbon disulfide	190800	15,000	200000	0	95.4	45-160	195500	2.43	30	
Carbon tetrachloride	173600	10,000	200000	0	86.8	65-135	183100	5.33	30	
Chlorobenzene	223000	15,000	200000	0	112	75-125	230500	3.31	30	
Chloroethane	187200	30,000	200000	0	93.6	40-155	185100	1.13	30	
Chloroform	210200	10,000	200000	0	105	70-125	210900	0.332	30	
Chloromethane	177800	30,000	200000	0	88.9	50-130	181400	2	30	
cis-1,2-Dichloroethene	202000	20,000	200000	0	101	65-125	198600	1.7	30	
cis-1,3-Dichloropropene	199500	10,000	200000	0	99.8	70-125	199100	0.201	30	
Dibromochloromethane	175700	20,000	200000	0	87.8	65-135	179000	1.86	30	

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89079** Instrument ID **VMS6** Method: **SW8260**

Dibromomethane	211000	20,000	200000	0	106	75-130	205600	2.59	30	
Dichlorodifluoromethane	169400	10,000	200000	0	84.7	35-135	191400	12.2	30	
Ethylbenzene	2043000	20,000	200000	174900	934	75-125	2082000	1.92	30	SE
Hexachlorobutadiene	357000	10,000	200000	0	178	55-140	353500	0.985	30	S
Hexachloroethane	156400	10,000	200000	0	78.2	70-135	154400	1.29	30	
Iodomethane	193400	25,000	200000	0	96.7	70-135	174200	10.4	30	
Isopropylbenzene	410700	10,000	200000	21400	195	75-130	421400	2.57	30	S
m,p-Xylene	7585000	20,000	400000	711400	1720	80-125	7718000	1.74	30	SE
Methyl tert-butyl ether	217000	15,000	200000	0	108	75-125	220600	1.65	30	
Methylene chloride	205600	20,000	200000	0	103	55-145	206700	0.534	30	
n-Butylbenzene	746900	5,000	200000	49800	349	65-140	770400	3.1	30	S
n-Propylbenzene	845000	20,000	200000	49800	398	65-135	873800	3.35	30	S
Naphthalene	1871000	20,000	200000	64100	903	40-140	1660000	11.9	30	SE
o-Xylene	2855000	10,000	200000	250800	1300	75-125	2886000	1.08	30	SE
p-Isopropyltoluene	1913000	95,000	200000	159900	877	75-135	1969000	2.87	30	SE
sec-Butylbenzene	399400	10,000	200000	18600	190	65-130	418600	4.69	30	S
Styrene	212400	15,000	200000	0	106	75-125	215300	1.36	30	
tert-Butylbenzene	245800	15,000	200000	0	123	65-130	253800	3.2	30	
Tetrachloroethene	199000	10,000	200000	0	99.5	64-140	209200	5	30	
Tetrahydrofuran	246900	15,000	200000	0	123	70-135	236700	4.22	30	
Toluene	1959000	15,000	200000	171800	894	70-125	1985000	1.31	30	SE
trans-1,2-Dichloroethene	201800	10,000	200000	0	101	65-135	209900	3.93	30	
trans-1,3-Dichloropropene	198400	15,000	200000	0	99.2	65-125	193200	2.66	30	
trans-1,4-Dichloro-2-butene	1117000	35,000	200000	0	559	70-135	1101000	1.42	30	SE
Trichloroethene	203400	10,000	200000	0	102	75-125	207600	2.04	30	
Trichlorofluoromethane	136000	10,000	200000	0	68	25-185	140900	3.54	30	
Vinyl chloride	187300	20,000	200000	0	93.6	60-125	200600	6.86	30	
Xylenes, Total	10440000	30,000	600000	962200	1580	75-125	10600000	1.56	30	SE
Surr: 1,2-Dichloroethane-d4	*992000*	0	*1000000*	0	*99.2*	*70-120*	989900	*0.212*	*30*	
Surr: 4-Bromofluorobenzene	*1268000*	0	*1000000*	0	*127*	*75-120*	1328000	*4.64*	*30*	*S*
Surr: Dibromofluoromethane	*977500*	0	*1000000*	0	*97.8*	*85-115*	984000	*0.663*	*30*	
Surr: Toluene-d8	*937900*	0	*1000000*	0	*93.8*	*85-115*	946400	*0.902*	*30*	

The following samples were analyzed in this batch:

1104422-01A	1104422-02A	1104422-03A
1104422-04A	1104422-05A	1104422-06A
1104422-07A	1104422-08A	

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89154A** Instrument ID **VMS6** Method: **SW8260**

MBLK Sample ID: **VBLKW1-110419-R89154A** Units: **µg/L** Analysis Date: **4/19/2011 12:15 PM**

Client ID: Run ID: **VMS6_110419A** SeqNo: **1603890** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0	0	0	0	0-0	0			
1,1,1-Trichloroethane	ND	1.0	0	0	0	0-0	0			
1,1,2,2-Tetrachloroethane	ND	1.0	0	0	0	0-0	0			
1,1,2-Trichloroethane	ND	1.0	0	0	0	0-0	0			
1,1,2-Trichlorotrifluoroethane	ND	1.0	0	0	0	0-0	0			
1,1-Dichloroethane	ND	1.0	0	0	0	0-0	0			
1,1-Dichloroethene	ND	1.0	0	0	0	0-0	0			
1,1-Dichloropropene	ND	1.0	0	0	0	0-0	0			
1,2,3-Trichlorobenzene	ND	3.0	0	0	0	0-0	0			
1,2,3-Trichloropropane	ND	1.0	0	0	0	0-0	0			
1,2,4-Trichlorobenzene	ND	1.0	0	0	0	0-0	0			
1,2,4-Trimethylbenzene	ND	1.0	0	0	0	0-0	0			
1,2-Dibromo-3-chloropropane	ND	1.0	0	0	0	0-0	0			
1,2-Dibromoethane	ND	1.0	0	0	0	0-0	0			
1,2-Dichlorobenzene	ND	1.0	0	0	0	0-0	0			
1,2-Dichloroethane	ND	1.0	0	0	0	0-0	0			
1,2-Dichloropropane	ND	2.0	0	0	0	0-0	0			
1,3,5-Trimethylbenzene	ND	1.0	0	0	0	0-0	0			
1,3-Dichlorobenzene	ND	2.0	0	0	0	0-0	0			
1,3-Dichloropropane	ND	1.0	0	0	0	0-0	0			
1,4-Dichlorobenzene	ND	2.0	0	0	0	0-0	0			
2,2-Dichloropropane	ND	1.0	0	0	0	0-0	0			
2-Butanone	ND	5.0	0	0	0	0-0	0			
2-Chlorotoluene	ND	2.0	0	0	0	0-0	0			
2-Hexanone	ND	5.0	0	0	0	0-0	0			
2-Methylnaphthalene	ND	10	0	0	0	0-0	0			
4-Chlorotoluene	ND	1.0	0	0	0	0-0	0			
4-Methyl-2-pentanone	ND	5.0	0	0	0	0-0	0			
Acetone	ND	20	0	0	0	0-0	0			
Acrylonitrile	ND	1.0	0	0	0	0-0	0			
Benzene	ND	1.0	0	0	0	0-0	0			
Bromobenzene	ND	1.0	0	0	0	0-0	0			
Bromochloromethane	ND	1.0	0	0	0	0-0	0			
Bromodichloromethane	ND	1.0	0	0	0	0-0	0			
Bromoform	ND	1.0	0	0	0	0-0	0			
Carbon disulfide	ND	2.5	0	0	0	0-0	0			
Carbon tetrachloride	ND	1.0	0	0	0	0-0	0			
Chlorobenzene	ND	1.0	0	0	0	0-0	0			
Chloroethane	ND	1.0	0	0	0	0-0	0			
Chloroform	ND	1.0	0	0	0	0-0	0			
Chloromethane	ND	1.0	0	0	0	0-0	0			
cis-1,2-Dichloroethene	ND	1.0	0	0	0	0-0	0			

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89154A** Instrument ID **VMS6** Method: **SW8260**

cis-1,3-Dichloropropene	ND	1.0	0	0	0	0-0	0
Dibromochloromethane	ND	1.0	0	0	0	0-0	0
Dibromomethane	ND	1.0	0	0	0	0-0	0
Dichlorodifluoromethane	ND	1.0	0	0	0	0-0	0
Diethyl ether	ND	10	0	0	0	0-0	0
Diisopropyl ether	ND	5.0	0	0	0		0
Ethyl tert butyl ether	ND	5.0	0	0	0		0
Ethylbenzene	ND	1.0	0	0	0	0-0	0
Hexachlorobutadiene	ND	5.0	0	0	0	0-0	0
Hexachloroethane	ND	1.0	0	0	0	0-0	0
Hexane	ND	5.0	0	0	0	0-0	0
Iodomethane	ND	5.0	0	0	0	0-0	0
Isopropylbenzene	ND	1.0	0	0	0	0-0	0
m,p-Xylene	ND	2.0	0	0	0	0-0	0
Methyl tert-butyl ether	ND	5.0	0	0	0	0-0	0
Methylene chloride	ND	5.0	0	0	0	0-0	0
n-Butylbenzene	ND	1.0	0	0	0	0-0	0
n-Propylbenzene	ND	1.0	0	0	0	0-0	0
Naphthalene	ND	5.0	0	0	0	0-0	0
o-Xylene	ND	1.0	0	0	0	0-0	0
p-Isopropyltoluene	ND	2.0	0	0	0	0-0	0
sec-Butylbenzene	ND	2.0	0	0	0	0-0	0
Styrene	ND	1.0	0	0	0	0-0	0
tert-Butyl alcohol	ND	50	0	0	0		0
tert-Butylbenzene	ND	2.0	0	0	0	0-0	0
Tetrachloroethene	ND	2.0	0	0	0	0-0	0
Tetrahydrofuran	ND	10	0	0	0	0-0	0
Toluene	ND	1.0	0	0	0	0-0	0
trans-1,2-Dichloroethene	ND	1.0	0	0	0	0-0	0
trans-1,3-Dichloropropene	ND	1.0	0	0	0	0-0	0
trans-1,4-Dichloro-2-butene	ND	5.0	0	0	0	0-0	0
Trichloroethene	ND	1.0	0	0	0	0-0	0
Trichlorofluoromethane	ND	1.0	0	0	0	0-0	0
Vinyl acetate	ND	1.0	0	0	0	0-0	0
Vinyl chloride	ND	1.0	0	0	0	0-0	0
1,2-Dichloroethene, Total	ND	2.0	0	0	0	0-0	0
1,3-Dichloropropene, Total	ND	2.0	0	0	0	0-0	0
Xylenes, Total	ND	2.0	0	0	0	0-0	0
Surr: 1,2-Dichloroethane-d4	*102.1*	0	*100*	0	*102*	*70-120*	0
Surr: 4-Bromofluorobenzene	*97.78*	0	*100*	0	*97.8*	*75-120*	0
Surr: Dibromofluoromethane	*101.7*	0	*100*	0	*102*	*85-115*	0
Surr: Toluene-d8	*99.69*	0	*100*	0	*99.7*	*85-120*	0

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89154A** Instrument ID **VMS6** Method: **SW8260**

LCS Sample ID: **VLCSW1-110419-R89154A** Units: **µg/L** Analysis Date: **4/19/2011 10:58 AM**

Client ID: Run ID: **VMS6_110419A** SeqNo: **1603702** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	21.42	1.0	20	0	107	80-130	0			
1,1,1-Trichloroethane	22.24	1.0	20	0	111	65-130	0			
1,1,2,2-Tetrachloroethane	21.74	1.0	20	0	109	65-130	0			
1,1,2-Trichloroethane	21.93	1.0	20	0	110	75-125	0			
1,1-Dichloroethane	23.03	1.0	20	0	115	70-135	0			
1,1-Dichloroethene	25.01	1.0	20	0	125	70-130	0			
1,1-Dichloropropene	22.89	1.0	20	0	114	75-130	0			
1,2,3-Trichlorobenzene	25.11	3.0	20	0	126	55-140	0			
1,2,3-Trichloropropane	20.8	1.0	20	0	104	75-125	0			
1,2,4-Trichlorobenzene	24.47	1.0	20	0	122	65-135	0			
1,2,4-Trimethylbenzene	22.17	1.0	20	0	111	75-130	0			
1,2-Dibromo-3-chloropropane	23.19	1.0	20	0	116	50-130	0			
1,2-Dibromoethane	20.42	1.0	20	0	102	80-120	0			
1,2-Dichlorobenzene	23.55	1.0	20	0	118	70-120	0			
1,2-Dichloroethane	22.14	1.0	20	0	111	70-130	0			
1,2-Dichloropropane	21.71	2.0	20	0	109	75-125	0			
1,3,5-Trimethylbenzene	22.58	1.0	20	0	113	75-130	0			
1,3-Dichlorobenzene	23.36	2.0	20	0	117	75-125	0			
1,3-Dichloropropane	21.99	1.0	20	0	110	75-125	0			
1,4-Dichlorobenzene	22.82	2.0	20	0	114	75-125	0			
2,2-Dichloropropane	24.98	1.0	20	0	125	70-135	0			
2-Butanone	28.18	5.0	20	0	141	30-150	0			
2-Chlorotoluene	23.02	2.0	20	0	115	75-125	0			
2-Hexanone	16.45	5.0	20	0	82.2	55-130	0			
4-Chlorotoluene	23.08	1.0	20	0	115	75-135	0			
4-Methyl-2-pentanone	21.62	5.0	20	0	108	60-135	0			
Acetone	23.86	20	20	0	119	40-140	0			
Acrylonitrile	20.26	1.0	20	0	101	70-135	0			
Benzene	23.04	1.0	20	0	115	80-120	0			
Bromobenzene	22.44	1.0	20	0	112	75-125	0			
Bromochloromethane	23.99	1.0	20	0	120	65-130	0			
Bromodichloromethane	21.14	1.0	20	0	106	75-120	0			
Bromoform	22.61	1.0	20	0	113	70-130	0			
Carbon disulfide	28.29	2.5	20	0	141	35-165	0			
Carbon tetrachloride	22.08	1.0	20	0	110	65-140	0			
Chlorobenzene	22.65	1.0	20	0	113	80-120	0			
Chloroethane	19.29	1.0	20	0	96.4	60-135	0			
Chloroform	22.06	1.0	20	0	110	65-135	0			
Chloromethane	20.07	1.0	20	0	100	70-125	0			
cis-1,2-Dichloroethene	22.92	1.0	20	0	115	70-125	0			
cis-1,3-Dichloropropene	21.24	1.0	20	0	106	70-130	0			
Dibromochloromethane	23.25	1.0	20	0	116	60-135	0			

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89154A** Instrument ID **VMS6** Method: **SW8260**

Dibromomethane	20.22	1.0	20	0	101	75-125	0	
Dichlorodifluoromethane	15.77	1.0	20	0	78.8	30-155	0	
Ethylbenzene	23.6	1.0	20	0	118	75-125	0	
Hexachlorobutadiene	28.53	5.0	20	0	143	50-140	0	S
Hexachloroethane	26.58	1.0	20	0	133	70-135	0	
Iodomethane	23.7	5.0	20	0	118	70-135	0	
Isopropylbenzene	23.81	1.0	20	0	119	75-125	0	
m,p-Xylene	46.94	2.0	40	0	117	75-130	0	
Methyl tert-butyl ether	19.74	5.0	20	0	98.7	65-125	0	
Methylene chloride	21.97	5.0	20	0	110	55-140	0	
n-Butylbenzene	24.42	1.0	20	0	122	70-135	0	
n-Propylbenzene	23.8	1.0	20	0	119	70-130	0	
Naphthalene	23.48	5.0	20	0	117	55-140	0	
o-Xylene	23.33	1.0	20	0	117	80-120	0	
p-Isopropyltoluene	23.55	2.0	20	0	118	75-130	0	
sec-Butylbenzene	23.98	2.0	20	0	120	70-125	0	
Styrene	21.78	1.0	20	0	109	65-135	0	
tert-Butylbenzene	23.18	2.0	20	0	116	70-130	0	
Tetrachloroethene	22.71	2.0	20	0	114	45-150	0	
Tetrahydrofuran	23.93	10	20	0	120	70-135	0	
Toluene	21.98	1.0	20	0	110	75-120	0	
trans-1,2-Dichloroethene	24.86	1.0	20	0	124	60-140	0	
trans-1,3-Dichloropropene	22.78	1.0	20	0	114	55-140	0	
trans-1,4-Dichloro-2-butene	20.07	5.0	20	0	100	70-135	0	
Trichloroethene	23.62	1.0	20	0	118	70-125	0	
Trichlorofluoromethane	18.36	1.0	20	0	91.8	60-145	0	
Vinyl chloride	20.86	1.0	20	0	104	50-145	0	
Xylenes, Total	70.27	2.0	60	0	117	75-130	0	
Surr: 1,2-Dichloroethane-d4	*97.53*	0	*100*	0	*97.5*	*70-120*	0	
Surr: 4-Bromofluorobenzene	*99.51*	0	*100*	0	*99.5*	*75-120*	0	
Surr: Dibromofluoromethane	*100.5*	0	*100*	0	*100*	*85-115*	0	
Surr: Toluene-d8	*98.53*	0	*100*	0	*98.5*	*85-120*	0	

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89154A** Instrument ID **VMS6** Method: **SW8260**

LCSD Sample ID: **VLCSDW1-110419-R89154A** Units: **µg/L** Analysis Date: **4/19/2011 11:23 AM**

Client ID: Run ID: **VMS6_110419A** SeqNo: **1603709** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	21.37	1.0	20	0	107	80-130	21.42	0.234	30	
1,1,1-Trichloroethane	21.91	1.0	20	0	110	65-130	22.24	1.49	30	
1,1,2,2-Tetrachloroethane	23.61	1.0	20	0	118	65-130	21.74	8.25	30	
1,1,2-Trichloroethane	22.53	1.0	20	0	113	75-125	21.93	2.7	30	
1,1-Dichloroethane	22.59	1.0	20	0	113	70-135	23.03	1.93	30	
1,1-Dichloroethene	23.86	1.0	20	0	119	70-130	25.01	4.71	30	
1,1-Dichloropropene	22.56	1.0	20	0	113	75-130	22.89	1.45	30	
1,2,3-Trichlorobenzene	23.84	3.0	20	0	119	55-140	25.11	5.19	30	
1,2,3-Trichloropropane	22.98	1.0	20	0	115	75-125	20.8	9.96	30	
1,2,4-Trichlorobenzene	22.46	1.0	20	0	112	65-135	24.47	8.57	30	
1,2,4-Trimethylbenzene	21.83	1.0	20	0	109	75-130	22.17	1.55	30	
1,2-Dibromo-3-chloropropane	24.1	1.0	20	0	120	50-130	23.19	3.85	30	
1,2-Dibromoethane	21.26	1.0	20	0	106	80-120	20.42	4.03	30	
1,2-Dichlorobenzene	23.23	1.0	20	0	116	70-120	23.55	1.37	30	
1,2-Dichloroethane	22.52	1.0	20	0	113	70-130	22.14	1.7	30	
1,2-Dichloropropane	21.66	2.0	20	0	108	75-125	21.71	0.231	30	
1,3,5-Trimethylbenzene	22.25	1.0	20	0	111	75-130	22.58	1.47	30	
1,3-Dichlorobenzene	22.66	2.0	20	0	113	75-125	23.36	3.04	30	
1,3-Dichloropropane	22.81	1.0	20	0	114	75-125	21.99	3.66	30	
1,4-Dichlorobenzene	22.16	2.0	20	0	111	75-125	22.82	2.93	30	
2,2-Dichloropropane	24.61	1.0	20	0	123	70-135	24.98	1.49	30	
2-Butanone	26.61	5.0	20	0	133	30-150	28.18	5.73	30	
2-Chlorotoluene	22.89	2.0	20	0	114	75-125	23.02	0.566	30	
2-Hexanone	18.72	5.0	20	0	93.6	55-130	16.45	12.9	30	
4-Chlorotoluene	23.17	1.0	20	0	116	75-135	23.08	0.389	30	
4-Methyl-2-pentanone	24.12	5.0	20	0	121	60-135	21.62	10.9	30	
Acetone	25.02	20	20	0	125	40-140	23.86	4.75	30	
Acrylonitrile	21.77	1.0	20	0	109	70-135	20.26	7.19	30	
Benzene	23.08	1.0	20	0	115	80-120	23.04	0.173	30	
Bromobenzene	22.59	1.0	20	0	113	75-125	22.44	0.666	30	
Bromochloromethane	23.83	1.0	20	0	119	65-130	23.99	0.669	30	
Bromodichloromethane	21.13	1.0	20	0	106	75-120	21.14	0.0473	30	
Bromoform	23.7	1.0	20	0	118	70-130	22.61	4.71	30	
Carbon disulfide	27.34	2.5	20	0	137	35-165	28.29	3.42	30	
Carbon tetrachloride	21.27	1.0	20	0	106	65-140	22.08	3.74	30	
Chlorobenzene	22.74	1.0	20	0	114	80-120	22.65	0.397	30	
Chloroethane	18.58	1.0	20	0	92.9	60-135	19.29	3.75	30	
Chloroform	21.77	1.0	20	0	109	65-135	22.06	1.32	30	
Chloromethane	18.56	1.0	20	0	92.8	70-125	20.07	7.82	30	
cis-1,2-Dichloroethene	23.06	1.0	20	0	115	70-125	22.92	0.609	30	
cis-1,3-Dichloropropene	21.45	1.0	20	0	107	70-130	21.24	0.984	30	
Dibromochloromethane	23.57	1.0	20	0	118	60-135	23.25	1.37	30	

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89154A** Instrument ID **VMS6** Method: **SW8260**

Dibromomethane	20.8	1.0	20	0	104	75-125	20.22	2.83	30
Dichlorodifluoromethane	15.89	1.0	20	0	79.4	30-155	15.77	0.758	30
Ethylbenzene	23.33	1.0	20	0	117	75-125	23.6	1.15	30
Hexachlorobutadiene	24.6	5.0	20	0	123	50-140	28.53	14.8	30
Hexachloroethane	24.02	1.0	20	0	120	70-135	26.58	10.1	30
Iodomethane	22.98	5.0	20	0	115	70-135	23.7	3.08	30
Isopropylbenzene	23.14	1.0	20	0	116	75-125	23.81	2.85	30
m,p-Xylene	46.02	2.0	40	0	115	75-130	46.94	1.98	30
Methyl tert-butyl ether	20.61	5.0	20	0	103	65-125	19.74	4.31	30
Methylene chloride	21.85	5.0	20	0	109	55-140	21.97	0.548	30
n-Butylbenzene	21.95	1.0	20	0	110	70-135	24.42	10.7	30
n-Propylbenzene	22.9	1.0	20	0	114	70-130	23.8	3.85	30
Naphthalene	23.26	5.0	20	0	116	55-140	23.48	0.941	30
o-Xylene	23.15	1.0	20	0	116	80-120	23.33	0.775	30
p-Isopropyltoluene	21.45	2.0	20	0	107	75-130	23.55	9.33	30
sec-Butylbenzene	22.34	2.0	20	0	112	70-125	23.98	7.08	30
Styrene	20.88	1.0	20	0	104	65-135	21.78	4.22	30
tert-Butylbenzene	22.32	2.0	20	0	112	70-130	23.18	3.78	30
Tetrachloroethene	22.24	2.0	20	0	111	45-150	22.71	2.09	30
Tetrahydrofuran	26.97	10	20	0	135	70-135	23.93	11.9	30
Toluene	21.79	1.0	20	0	109	75-120	21.98	0.868	30
trans-1,2-Dichloroethene	23.8	1.0	20	0	119	60-140	24.86	4.36	30
trans-1,3-Dichloropropene	23.6	1.0	20	0	118	55-140	22.78	3.54	30
trans-1,4-Dichloro-2-butene	21.16	5.0	20	0	106	70-135	20.07	5.29	30
Trichloroethene	23.05	1.0	20	0	115	70-125	23.62	2.44	30
Trichlorofluoromethane	16.24	1.0	20	0	81.2	60-145	18.36	12.3	30
Vinyl chloride	20.13	1.0	20	0	101	50-145	20.86	3.56	30
Xylenes, Total	69.17	2.0	60	0	115	75-130	70.27	1.58	30
Surr: 1,2-Dichloroethane-d4	*101.8*	0	*100*	0	*102*	*70-120*	97.53	*4.24*	*30*
Surr: 4-Bromofluorobenzene	*99.92*	0	*100*	0	*99.9*	*75-120*	99.51	*0.411*	*30*
Surr: Dibromofluoromethane	*101.1*	0	*100*	0	*101*	*85-115*	100.5	*0.665*	*30*
Surr: Toluene-d8	*100.6*	0	*100*	0	*101*	*85-120*	98.53	*2.04*	*30*

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89154A** Instrument ID **VMS6** Method: **SW8260**

MS Sample ID: **1104449-03B MS** Units: **µg/Kg** Analysis Date: **4/19/2011 01:06 PM**

Client ID: Run ID: **VMS6_110419A** SeqNo: **1603892** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1997	150	2000	0	99.8	75-125	0			
1,1,1-Trichloroethane	2028	100	2000	0	101	70-135	0			
1,1,2,2-Tetrachloroethane	2264	200	2000	0	113	55-130	0			
1,1,2-Trichloroethane	2153	200	2000	0	108	60-125	0			
1,1-Dichloroethane	2163	100	2000	0	108	75-125	0			
1,1-Dichloroethene	2100	100	2000	0	105	65-135	0			
1,1-Dichloropropene	2399	100	2000	0	120	70-135	0			
1,2,3-Trichlorobenzene	2227	200	2000	0	111	60-135	0			
1,2,3-Trichloropropane	2159	200	2000	0	108	65-130	0			
1,2,4-Trichlorobenzene	2082	100	2000	0	104	65-130	0			
1,2,4-Trimethylbenzene	2082	100	2000	0	104	65-135	0			
1,2-Dibromo-3-chloropropane	2288	200	2000	0	114	40-135	0			
1,2-Dibromoethane	2056	150	2000	0	103	70-125	0			
1,2-Dichlorobenzene	2169	100	2000	0	108	75-120	0			
1,2-Dichloroethane	2143	100	2000	0	107	70-135	0			
1,2-Dichloropropane	2018	350	2000	0	101	70-120	0			
1,3,5-Trimethylbenzene	2111	100	2000	0	106	65-135	0			
1,3-Dichlorobenzene	2130	100	2000	0	106	70-125	0			
1,3-Dichloropropane	2169	150	2000	0	108	75-125	0			
1,4-Dichlorobenzene	2069	100	2000	0	103	70-125	0			
2,2-Dichloropropane	2481	60	2000	0	124	65-135	0			
2-Butanone	2865	750	2000	440	121	30-160	0			
2-Chlorotoluene	2183	150	2000	0	109	70-130	0			
2-Hexanone	1870	500	2000	0	93.5	45-145	0			
4-Chlorotoluene	2209	200	2000	0	110	75-125	0			
4-Methyl-2-pentanone	2447	500	2000	0	122	45-145	0			
Acetone	2313	450	2000	367	97.3	20-160	0			
Acrylonitrile	2231	400	2000	0	112	70-135	0			
Benzene	2174	100	2000	0	109	75-125	0			
Bromobenzene	2140	150	2000	0	107	65-120	0			
Bromochloromethane	2150	150	2000	0	108	70-125	0			
Bromodichloromethane	1944	150	2000	0	97.2	70-130	0			
Bromoform	2177	100	2000	0	109	55-135	0			
Carbon disulfide	2340	150	2000	0	117	45-160	0			
Carbon tetrachloride	1968	100	2000	0	98.4	65-135	0			
Chlorobenzene	2160	150	2000	0	108	75-125	0			
Chloroethane	1663	300	2000	0	83.2	40-155	0			
Chloroform	2043	100	2000	0	102	70-125	0			
Chloromethane	1641	300	2000	0	82	50-130	0			
cis-1,2-Dichloroethene	2202	200	2000	0	110	65-125	0			
cis-1,3-Dichloropropene	2015	100	2000	0	101	70-125	0			
Dibromochloromethane	2174	200	2000	0	109	65-135	0			

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89154A** Instrument ID **VMS6** Method: **SW8260**

Dibromomethane	1981	200	2000	0	99	75-130	0
Dichlorodifluoromethane	1577	100	2000	0	78.8	35-135	0
Ethylbenzene	2207	200	2000	0	110	75-125	0
Hexachlorobutadiene	2184	100	2000	0	109	55-140	0
Hexachloroethane	2177	100	2000	0	109	70-135	0
Iodomethane	2053	250	2000	373	84	70-135	0
Isopropylbenzene	2223	100	2000	0	111	75-130	0
m,p-Xylene	4381	200	4000	0	110	80-125	0
Methyl tert-butyl ether	2110	150	2000	0	106	75-125	0
Methylene chloride	2086	200	2000	0	104	55-145	0
n-Butylbenzene	2059	50	2000	0	103	65-140	0
n-Propylbenzene	2195	200	2000	0	110	65-135	0
Naphthalene	2249	200	2000	0	112	40-140	0
o-Xylene	2196	100	2000	0	110	75-125	0
p-Isopropyltoluene	1983	950	2000	0	99.2	75-135	0
sec-Butylbenzene	2147	100	2000	0	107	65-130	0
Styrene	2002	150	2000	0	100	75-125	0
tert-Butylbenzene	2111	150	2000	0	106	65-130	0
Tetrachloroethene	2090	100	2000	0	104	64-140	0
Tetrahydrofuran	2553	150	2000	0	128	70-135	0
Toluene	2038	150	2000	0	102	70-125	0
trans-1,2-Dichloroethene	2237	100	2000	0	112	65-135	0
trans-1,3-Dichloropropene	2218	150	2000	0	111	65-125	0
trans-1,4-Dichloro-2-butene	1960	350	2000	0	98	70-135	0
Trichloroethene	2132	100	2000	0	107	75-125	0
Trichlorofluoromethane	1434	100	2000	0	71.7	25-185	0
Vinyl chloride	1877	200	2000	0	93.8	60-125	0
Xylenes, Total	6577	300	6000	0	110	75-125	0
Surr: 1,2-Dichloroethane-d4	*9996*	0	*10000*	0	*100*	*70-120*	0
Surr: 4-Bromofluorobenzene	*10050*	0	*10000*	0	*101*	*75-120*	0
Surr: Dibromofluoromethane	*9868*	0	*10000*	0	*98.7*	*85-115*	0
Surr: Toluene-d8	*9930*	0	*10000*	0	*99.3*	*85-115*	0

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89154A** Instrument ID **VMS6** Method: **SW8260**

MSD Sample ID: **1104449-03B MSD** Units: **µg/Kg** Analysis Date: **4/19/2011 01:31 PM**

Client ID: Run ID: **VMS6_110419A** SeqNo: **1603958** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1912	150	2000	0	95.6	75-125	1997	4.35	30	
1,1,1-Trichloroethane	1929	100	2000	0	96.4	70-135	2028	5	30	
1,1,2,2-Tetrachloroethane	2248	200	2000	0	112	55-130	2264	0.709	30	
1,1,2-Trichloroethane	2094	200	2000	0	105	60-125	2153	2.78	30	
1,1-Dichloroethane	2033	100	2000	0	102	75-125	2163	6.2	30	
1,1-Dichloroethene	1977	100	2000	0	98.8	65-135	2100	6.03	30	
1,1-Dichloropropene	2363	100	2000	0	118	70-135	2399	1.51	30	
1,2,3-Trichlorobenzene	2254	200	2000	0	113	60-135	2227	1.21	30	
1,2,3-Trichloropropane	2135	200	2000	0	107	65-130	2159	1.12	30	
1,2,4-Trichlorobenzene	2039	100	2000	0	102	65-130	2082	2.09	30	
1,2,4-Trimethylbenzene	1962	100	2000	0	98.1	65-135	2082	5.93	30	
1,2-Dibromo-3-chloropropane	2260	200	2000	0	113	40-135	2288	1.23	30	
1,2-Dibromoethane	1996	150	2000	0	99.8	70-125	2056	2.96	30	
1,2-Dichlorobenzene	2084	100	2000	0	104	75-120	2169	4	30	
1,2-Dichloroethane	2066	100	2000	0	103	70-135	2143	3.66	30	
1,2-Dichloropropane	1953	350	2000	0	97.6	70-120	2018	3.27	30	
1,3,5-Trimethylbenzene	1991	100	2000	0	99.6	65-135	2111	5.85	30	
1,3-Dichlorobenzene	2035	100	2000	0	102	70-125	2130	4.56	30	
1,3-Dichloropropane	2121	150	2000	0	106	75-125	2169	2.24	30	
1,4-Dichlorobenzene	1973	100	2000	0	98.6	70-125	2069	4.75	30	
2,2-Dichloropropane	2349	60	2000	0	117	65-135	2481	5.47	30	
2-Butanone	2645	750	2000	440	110	30-160	2865	7.99	30	
2-Chlorotoluene	2042	150	2000	0	102	70-130	2183	6.67	30	
2-Hexanone	1900	500	2000	0	95	45-145	1870	1.59	30	
4-Chlorotoluene	2078	200	2000	0	104	75-125	2209	6.11	30	
4-Methyl-2-pentanone	2429	500	2000	0	121	45-145	2447	0.738	30	
Acetone	2421	450	2000	367	103	20-160	2313	4.56	30	
Acrylonitrile	2222	400	2000	0	111	70-135	2231	0.404	30	
Benzene	2075	100	2000	0	104	75-125	2174	4.66	30	
Bromobenzene	2065	150	2000	0	103	65-120	2140	3.57	30	
Bromochloromethane	2054	150	2000	0	103	70-125	2150	4.57	30	
Bromodichloromethane	1856	150	2000	0	92.8	70-130	1944	4.63	30	
Bromoform	2126	100	2000	0	106	55-135	2177	2.37	30	
Carbon disulfide	2224	150	2000	0	111	45-160	2340	5.08	30	
Carbon tetrachloride	1847	100	2000	0	92.4	65-135	1968	6.34	30	
Chlorobenzene	2031	150	2000	0	102	75-125	2160	6.16	30	
Chloroethane	1653	300	2000	0	82.6	40-155	1663	0.603	30	
Chloroform	1945	100	2000	0	97.2	70-125	2043	4.91	30	
Chloromethane	1740	300	2000	0	87	50-130	1641	5.86	30	
cis-1,2-Dichloroethene	2081	200	2000	0	104	65-125	2202	5.65	30	
cis-1,3-Dichloropropene	1961	100	2000	0	98	70-125	2015	2.72	30	
Dibromochloromethane	2076	200	2000	0	104	65-135	2174	4.61	30	

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89154A** Instrument ID **VMS6** Method: **SW8260**

Dibromomethane	1946	200	2000	0	97.3	75-130	1981	1.78	30
Dichlorodifluoromethane	1497	100	2000	0	74.8	35-135	1577	5.2	30
Ethylbenzene	2085	200	2000	0	104	75-125	2207	5.68	30
Hexachlorobutadiene	2146	100	2000	0	107	55-140	2184	1.76	30
Hexachloroethane	2086	100	2000	0	104	70-135	2177	4.27	30
Iodomethane	1947	250	2000	373	78.7	70-135	2053	5.3	30
Isopropylbenzene	2092	100	2000	0	105	75-130	2223	6.07	30
m,p-Xylene	4143	200	4000	0	104	80-125	4381	5.58	30
Methyl tert-butyl ether	2029	150	2000	0	101	75-125	2110	3.91	30
Methylene chloride	1981	200	2000	0	99	55-145	2086	5.16	30
n-Butylbenzene	1950	50	2000	0	97.5	65-140	2059	5.44	30
n-Propylbenzene	2068	200	2000	0	103	65-135	2195	5.96	30
Naphthalene	2446	200	2000	0	122	40-140	2249	8.39	30
o-Xylene	2086	100	2000	0	104	75-125	2196	5.14	30
p-Isopropyltoluene	1900	950	2000	0	95	75-135	1983	4.28	30
sec-Butylbenzene	2021	100	2000	0	101	65-130	2147	6.05	30
Styrene	1924	150	2000	0	96.2	75-125	2002	3.97	30
tert-Butylbenzene	1999	150	2000	0	100	65-130	2111	5.45	30
Tetrachloroethene	1975	100	2000	0	98.8	64-140	2090	5.66	30
Tetrahydrofuran	2574	150	2000	0	129	70-135	2553	0.819	30
Toluene	1923	150	2000	0	96.2	70-125	2038	5.81	30
trans-1,2-Dichloroethene	2124	100	2000	0	106	65-135	2237	5.18	30
trans-1,3-Dichloropropene	2169	150	2000	0	108	65-125	2218	2.23	30
trans-1,4-Dichloro-2-butene	2045	350	2000	0	102	70-135	1960	4.24	30
Trichloroethene	2060	100	2000	0	103	75-125	2132	3.44	30
Trichlorofluoromethane	1320	100	2000	0	66	25-185	1434	8.28	30
Vinyl chloride	1862	200	2000	0	93.1	60-125	1877	0.802	30
Xylenes, Total	6229	300	6000	0	104	75-125	6577	5.43	30
Surr: 1,2-Dichloroethane-d4	*10010*	0	*10000*	0	*100*	*70-120*	9996	*0.17*	*30*
Surr: 4-Bromofluorobenzene	*10080*	0	*10000*	0	*101*	*75-120*	10050	*0.248*	*30*
Surr: Dibromofluoromethane	*9978*	0	*10000*	0	*99.8*	*85-115*	9868	*1.11*	*30*
Surr: Toluene-d8	*9985*	0	*10000*	0	*99.8*	*85-115*	9930	*0.552*	*30*

The following samples were analyzed in this batch: 1104422-03A 1104422-06A

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

Client: Horizon Environmental
Work Order: 1104422
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89150** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS1-R89150** Units: **% of sample** Analysis Date: **4/18/2011 08:00 AM**
Client ID: Run ID: **MOIST_110418A** SeqNo: **1603610** 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-R89150** Units: **% of sample** Analysis Date: **4/18/2011 08:00 AM**
Client ID: Run ID: **MOIST_110418A** SeqNo: **1603606** 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: **1104422-08B DUP** Units: **% of sample** Analysis Date: **4/18/2011 08:00 AM**
Client ID: **RO-FD-VS-27** Run ID: **MOIST_110418A** SeqNo: **1603604** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	15.02	0.050	0	0	0	0-0	15.46	2.89	20	

The following samples were analyzed in this batch:

1104422-01B	1104422-02B	1104422-03B
1104422-04B	1104422-05B	1104422-06B
1104422-07B	1104422-08B	

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

☐ ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

Page ____ of ____

COC ID: 11389

☐ ALS Environmental
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager: | ALS Work Order #: 1104422

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Reclamation Oil	A	VOC's
Work Order		Project Number		B	PCB's
Company Name	Horizon Environmental	Bill To Company	Horizon Environmental	C	Arsenic
Send Report To	Karen Hathaway	Invoice Attn	Accounts Payable	D	Lead
Address	4771 50th Street	Address	4771 50th Street	E	
				F	
City/State/Zip	Grand Rapids, MI 49512	City/State/Zip	Grand Rapids, MI 49512	G	
Phone	(616) 554-3210	Phone	(616) 554-3210	H	
Fax	(616) 554-3211	Fax	(616) 554-3211	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	RO-S-VS-21	4-15-11		Soil	Meth	3	X	X	X	X							24 hr
2	RO-S-VS-22					3	X	X	X	X							24 hr.
3	RO-S-VS-23					3	X	X	X	X							STANDARD
4	RO-S-VS-24					3	X	X	X	X							STANDARD
5	RO-S-VS-25					3	X	X	X	X							24 hr.
6	RO-S-VS-26					3	X	X	X	X							STANDARD
7	RO-S-VS-27					3	X	X	X	X							24 hr.
8	~~RO-S-VS-27 Duplicate~~ RO-FD-VS-27 KH 4/28/11					3	X	X	X	X							
9	~~Trip Blank~~ RO-MB-02 KH 4/28/11						✓										
10																	

Sampler(s) Please Print & Sign: Mike Potter

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other ____

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
Mike Potter	4-15-11	7:10pm	
Relinquished by:	Date: 4/15/11	Time:	Received by (Laboratory): 4/16/11 8:30
Logged by (Laboratory):	Date: 4/16/11	Time: 9:00	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.
	4.2C

QC Package: (Check One Box Below)
☐ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other ____
☐ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2010 by ALS Environmental.

CITY TRANSFER COMPANY (GROUND-AIR BILL – SHIPPING RECEIPT)

DATE 4/15/11

2770902

PLACE AN "X" BELOW

- SPECIAL SERVICE
- GROUND SERVICE X
- AIR SERVICE
- AIR & GROUND COMBINED
- CANCELLED CHECKS OR CASH LETTERS
- OTHER (LIST COMMODITIES) ➡
- SPECIAL INSTRUCTIONS ➡

SHIPPER COMPANY	HLS
CONTACT	Fred
PHONE #	
STREET ADDRESS	2415 Chandler
CITY	Lincoln Park
STATE, ZIP CODE	MI
RECEIVER	HLS
PHONE #	(630) 399-6070
STREET ADDRESS	
CITY	Hillsdale
STATE, ZIP CODE	

DECLARED VALUE $

ADD'L INSURANCE COST $

ACCOUNT NO.

PIECES	(DESCRIPTION OF WHAT IS BEING SHIPPED: BOX, BAG, ENVELOPE)	WEIGHT LBS.	WEIGHT OZ.	$ CHARGES
5	Woolen Jewel	130		

TOTAL $

☐ PREPAID ☐ BILL TO ACCT. ☐ C.O.D.

Except for "cash letters", the released or declared value of this shipment is specifically declared not to be in excess of $100.00 unless a greater value is declared in writing on this Bill of Lading for which additional charges will be assessed. Carrier's liability with respect to cash letter shipments is limited in its tariffs.

Except for "cash letter" shipments, claims, if any, must be filed in writing within thirty (30) days after pickup. Claims involving cash letter shipments must be filed in writing within three (3) days after pickup. Claimant shall give oral notice to carrier as soon as it becomes aware of a potential claim involving a cash letter shipment.

CARRIER SHALL NOT BE LIABLE FOR CONSEQUENTIAL DAMAGES.

RECEIVED, Subject to rates and tariffs in effect on the date hereof

PICKED UP BY	DATE	TIME
DRIVER: Phil	4-15-11	A.M.
ROUTE #: 207		4:55 P.M.

RECEIVED BY	DATE	TIME
[illegible]	4/15/11	A.M.
ROUTE #: 1 of 03		P.M.

The property described above, in apparent good order, except as noted (contents and conditions of packages unknown), marked, consigned and destined as shown below, which said company agrees to carry to its usual place of delivery at said destination if within the territory of its highway operations. It is mutually agreed as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions of the carrier's tariff, which are hereby agreed to by the shipper and accepted for himself and his assigns.

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL

Date: [illegible]
Time:
Name: [illegible]
Company:

2.8-4.8°C

TB -1.4°C

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HORIZONENV-GR** Date/Time Received: **15-Apr-11 14:10**

Work Order: **1104422** Received by: **AP**

Checklist completed by Ann Preston (eSignature) 16-Apr-11 (Date) Reviewed by: Joseph Rebar (eSignature) 18-Apr-11 (Date)

Matrices: soil
Carrier name: City Transfer

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.2°C		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

DATA VALIDATION REPORT

RECLAMATION OIL SITE
6472 SELKIRK STREET
DETROIT, MICHIGAN

Date: May 2, 2011
Laboratory: ALS Laboratory Group (ALS), Holland, Michigan
Laboratory Work Order #: 1104520
Data Validation Performed By: Karen Hathaway, Horizon Environmental

This data validation report has been prepared by Horizon Environmental Corporation on behalf of the Respondents to the Administrative Settlement Agreement and Order on Consent for Removal Action Docket No. V-W-10-C-955 (Settlement Agreement) entered into by the U.S. Environmental Protection Agency (U.S. EPA) and Respondents[1] with an effective date of September 30, 2010.

This report documents the data validation for 5 soil samples (plus one duplicate sample and one methanol trip blank) collected from the Reclamation Oil Site that were analyzed for the following parameters by U.S. Environmental Protection Agency (U.S. EPA) methods:

- Target Compound List (TCL) Volatile Organic Compounds (VOC) by SW-846 Method 8260B;
- Polychlorinated biphenyls (PCB) by SW-846 Method 8082; and
- Arsenic and lead by SW-846 Method 6020A.

All of the collected samples were analyzed by the laboratory (100% completeness). A Level II data package was requested from ALS. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

VOCs BY SW-846 METHOD 8260B

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

[1] The Respondents consist of Univar USA Inc., SPX Corporation, BorgWarner Inc., and Ford Motor Company.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
RO-S-VS-28	1104520-01	Soil	4/20/2011	4/21-25/2011
RO-S-VS-29	1104520-02	Soil	4/20/2011	4/23/2011
RO-S-VS-30	1104520-03	Soil	4/20/2011	4/21-24/2011
RO-S-VS-31	1104520-04	Soil	4/20/2011	4/21/2011
RO-S-VS-32	1104520-05	Soil	4/20/2011	4/21/2011
RO-FD-VS-32	1104520-06	Soil	4/20/2011	4/21/2011
RO-MB-03	1104520-07	Soil	4/20/2011	4/21/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection.

3. Blanks

Method blanks were analyzed with the samples for VOC analyses. The method blanks were free of target compound contamination above the reporting limit with one exception. Chloroform was detected above the practical quantitation limit (PQL) in the method blank analyzed on April 23, 2011. The chloroform results from this analysis were not reported. The affected samples were re-analyzed and the method blanks associated with the re-analyses were free of chloroform. Therefore, no qualifications are required for the reported data.

The methanol blank RO-MB-03 was free of target compound contamination above the reporting limit.

4. Surrogate Results

The surrogate recovery results were mostly within the laboratory-established quality control (QC) limits. In two samples, one of the four surrogates was slightly outside the QC limit. However, because the dilution factor for these samples was high at 200 or 1000, no qualification of the data is required.

5. Laboratory Control Sample (LCS) Results

The LCS percent recoveries were within laboratory-established QC limits except as follows. For the LCS associated with analysis date April 21, 2011, iodomethane was outside the QC limits. For analyses of iodomethane dated April 21, 2011, non-detect quantitation limits were flagged "UJ" as estimated.

For the LCS associated with analysis date April 22, 2011, 4-methyl-2-pentanone was outside the QC limits. For analyses of 4-methyl-2-pentanone dated April 23, 2011, quantitation limits for non-detected results were flagged "UJ" as estimated.

The LCS percent recoveries were within laboratory-established QC limits for the chloroform analyses date April 23 and 25, 2011

6. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

The MS/MSD results associated with the samples analyzed on April 21, 2011 had recoveries that exceeded QC limits for the following: 2,2-dichloropropane, chloroethane, chloromethane, trans-1,4-dichloro-2-butene, trichlorofluoromethane and vinyl chloride. For samples analyzed on April 21, 2011, quantitation limits for non-detected results for these compounds were flagged "UJ" as estimated.

A second MS/MSD analyzed on April 23, 2011 had recoveries that exceeded QC limits for the following: 4-methyl-2-pentanone, and methyl-tert-butyl ether. For samples analyzed on April 23, 2011, quantitation limits for non-detected results for these compounds were flagged "UJ" as estimated.

7. Field Duplicate Results

A field duplicate sample was collected at the frequency specified in the QAPP. Sample RO-FD-VS-32 is a duplicate of sample RO-S-VS-32. Field duplicate sample RO-FD-VS-32 showed good correlation with the investigative sample (all non-detect).

8. Overall Assessment

The VOC data are acceptable for use as qualified based on the information received.

PCBS BY SW-846 METHOD 8082

1. Samples

The following table summarizes the samples for which this data validation was conducted.

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
RO-S-VS-28	1104520-01	Soil	4/20/2011	4/21/2011	4/22/2011
RO-S-VS-29	1104520-02	Soil	4/20/2011	4/21/2011	4/22/2011
RO-S-VS-30	1104520-03	Soil	4/20/2011	4/21/2011	4/22/2011
RO-S-VS-31	1104520-04	Soil	4/20/2011	4/21/2011	4/22/2011
RO-S-VS-32	1104520-05	Soil	4/20/2011	4/21/2011	4/22/2011
RO-FD-VS-32	1104520-06	Soil	4/20/2011	4/21/2011	4/22/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

3. Blanks

The method blanks were free of target compound contamination above the reporting limit.

4. Surrogates

The surrogate recovery results were within the laboratory-established QC limits.

5. LCS Results

The LCS recoveries were within the laboratory-established QC limits.

6. MS and MSD Results

Percent recoveries and RPDs for the MS/MSD samples were within laboratory QC limits.

7. Field Duplicate Results

Field duplicate samples for PCB analysis were collected at the frequency specified in the QAPP. Sample RO-FD-VS-32 is a duplicate of sample RO-S-VS-32. Field duplicate sample RO-FD-VS-32 showed good correlation with the investigative sample (all non-detect).

8. Overall Assessment

The PCB data are acceptable for use based on the information received.

ARSENIC AND LEAD BY SW-846 METHOD 6020A

1. Samples

The following table summarizes the samples for which this data validation was conducted.

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
RO-S-VS-28	1104520-01	Soil	4/20/2011	4/21/2011	4/22/2011
RO-S-VS-29	1104520-02	Soil	4/20/2011	4/21/2011	4/22/2011
RO-S-VS-30	1104520-03	Soil	4/20/2011	4/21/2011	4/22/2011
RO-S-VS-31	1104520-04	Soil	4/20/2011	4/21/2011	4/22/2011
RO-S-VS-32	1104520-05	Soil	4/20/2011	4/21/2011	4/22/2011
RO-FD-VS-32	1104520-06	Soil	4/20/2011	4/21/2011	4/22/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 180 days from sample collection to analysis.

3. Blanks

The method blank was free of target compound contamination above the reporting limit. Lead was detected below the PQL in the method blank. Because lead was detected at higher concentrations in the samples, no qualification is required.

4. LCS Results

The LCS recoveries were within the laboratory-established QC limits.

5. MS and MSD Results

Lead recovery for the MSD sample was outside laboratory QC limits. For samples analyzed for lead, detected results were flagged "J" as estimated.

6. Field Duplicate Results

Field duplicate samples for metals analysis were collected at the frequency specified in the QAPP. Sample RO-FD-VS-32 is a duplicate of sample RO-S-VS-32. Field duplicate sample RO-FD-VS-32 showed good correlation for arsenic and lead in the investigative sample (within 35%).

7. Overall Assessment

The metals data are acceptable for use as qualified based on the information received.

DISCREPANCY FROM QAPP

The sample identification codes on the chain-of-custody (COC) for the field duplicate sample and methanol blank did not follow the field identification system provided in the QAPP. Notations were made on the COC, the laboratory was notified, and the sample identification codes were revised accordingly. No qualification of the data is needed. The Horizon Field Team Leader was informed of the sample identification code discrepancies so that corrective measures could be taken for future sampling events.

ATTACHMENT

ALS LABORATORY GROUP
RESULTS SUMMARY WITH QUALIFIERS

ALS Environmental

01-May-2011

Bill Davidson
Horizon Environmental
4771 50th Street
Grand Rapids, MI 49512

Re: **Reclamation Oil** Work Order: **1104520**

Dear Bill,

ALS Environmental received 7 samples on 21-Apr-2011 07:30 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.

QC sample results for this data met 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 55.

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

Sincerely,

Joseph Ribar

Electronically approved by: Joseph Ribar

Joseph Ribar
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

Certificate No: IL100452

ALS Group USA, Corp

Date: 01-May-11

Client: Horizon Environmental
Project: Reclamation Oil
Work Order: **1104520**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1104520-01	RO-S-VS-28	Soil		4/20/2011 12:00	4/21/2011 07:30	☐
1104520-02	RO-S-VS-29	Soil		4/20/2011 12:05	4/21/2011 07:30	☐
1104520-03	RO-S-VS-30	Soil		4/20/2011 12:10	4/21/2011 07:30	☐
1104520-04	RO-S-VS-31	Soil		4/20/2011 12:15	4/21/2011 07:30	☐
1104520-05	RO-S-VS-32	Soil		4/20/2011 12:20	4/21/2011 07:30	☐
1104520-06	RO-FD-VS-32	Soil		4/20/2011 12:25	4/21/2011 07:30	☐
1104520-07	RO-MB-03	Soil		4/20/2011	4/21/2011 07:30	☐

Client: Horizon Environmental
Project: Reclamation Oil
Work Order: 1104520

Case Narrative

Sample Summary

Batch 32952, Metals by ICP-MS, Sample pertaining to work order 1104520 were run at dilution due to matrix interferences.

QC Summary

Metals by ICP-MS

Batch 32952, Method 6020, Sample 1104499-08B MSD: Lead recovery was outside of control limits due to matrix interference. RPD value in relation to the MS was within control.

Volatile Organic Compounds

Batch R89261A, Method 8260, Sample VLCSW1/VLCSDW1-110421: Iodomethane recoveries exceeded the upper control limits in the LCS and LCSD; however no hits were reported in any of this project's samples.

Batch R89261A, Method 8260, Sample 1104497-01A MSD: Recoveries for several compound were outside control limits due to sample matrix and homogeneity issues.

Batch R89325A, Method 8260, Samples VLCSW1/VLCSDW1-110422: Chloroform is "B" Flagged. Results for Chloroform were not reported from this analysis.

Batch R89325A, Method 8260, Samples VLCSW1/VLCSDW1-110422: 4-Methyl-2-pentanone recoveries exceeded the upper control limits; however no hits were reported in this project's samples.

Batch R89325A, Method 8260, Sample 1104519-10B MS: Methyl tert-butyl ether exceeded the upper control limits due to a sporadic marginal exceedance.Batch R89339, Method VOC_8260_W, Sample 1104458-04A MS: Compounds out due to matrix interference.
Batch R89339, Method VOC_8260_W, Sample 1104458-04A MSD: Compounds out due to matrix interference.
Batch R89339, Method VOC_8260_W, Sample 1104458-04A MSD: Compounds out due to matrix interference.
Batch R89339, Method VOC_8260_W, Sample 1104458-04A MS: Compounds out due to matrix interference.
Batch R89339, Method VOC_8260_W, Sample VLCSW2-110424: 4-Methyl 2-Pentanone, and Methyl tert butyl ether out high. No hits reported in any samples. 1,2-Dichlorobenzene,

benzene, chlorobenzene, and o-xylene out due to SME.
Batch R89339, Method VOC_8260_W, Sample VLCSDW2-110424: 4-Methyl 2-Pentanone, and Methyl tert butyl ether out high. No hits reported in any samples.

ALS Group USA, Corp

Date: 01-May-11

Client: Horizon Environmental
Project: Reclamation Oil
WorkOrder: **1104520**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	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 detected below quantitation 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

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
TDL	Target Detection Limit

Units Reported	Description
% of sample	Percent of Sample
µg/Kg	Micrograms per Kilogram
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-28
Collection Date: 4/20/2011 12:00 PM

Work Order: 1104520
Lab ID: 1104520-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **4/21/2011**	Analyst: **JD**
Aroclor 1016	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1221	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1232	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1242	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1248	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1254	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1260	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1262	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1268	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Surr: Decachlorobiphenyl	*67.1*		*40-140*	*%REC*	1	4/22/2011 10:11 AM
METALS BY ICP-MS			**SW6020A**		Prep Date: **4/21/2011**	Analyst: **CES**
Arsenic	ND		0.85	mg/Kg-dry	5	4/22/2011 12:51 PM
Lead	**0.99**	J	**0.085**	**mg/Kg-dry**	5	4/22/2011 12:51 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **BG**
1,1,1,2-Tetrachloroethane	ND		1,800	µg/Kg-dry	1000	4/23/2011 09:30 AM
1,1,1-Trichloroethane	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM
1,1,2,2-Tetrachloroethane	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM
1,1,2-Trichloroethane	ND		590	µg/Kg-dry	1000	4/23/2011 09:30 AM
1,1,2-Trichlorotrifluoroethane	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM
1,1-Dichloroethane	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM
1,1-Dichloroethene	ND		590	µg/Kg-dry	1000	4/23/2011 09:30 AM
1,1-Dichloropropene	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM
1,2,3-Trichlorobenzene	ND		2,400	µg/Kg-dry	1000	4/23/2011 09:30 AM
1,2,3-Trichloropropane	ND		2,400	µg/Kg-dry	1000	4/23/2011 09:30 AM
1,2,4-Trichlorobenzene	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM
1,2,4-Trimethylbenzene	**140,000**		**12,000**	**µg/Kg-dry**	10000	4/21/2011 11:11 PM
1,2-Dibromo-3-chloropropane	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM
1,2-Dibromoethane	ND		1,800	µg/Kg-dry	1000	4/23/2011 09:30 AM
1,2-Dichlorobenzene	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM
1,2-Dichloroethane	ND		590	µg/Kg-dry	1000	4/23/2011 09:30 AM
1,2-Dichloropropane	ND		590	µg/Kg-dry	1000	4/23/2011 09:30 AM
1,3,5-Trimethylbenzene	**64,000**		**1,200**	**µg/Kg-dry**	1000	4/23/2011 09:30 AM
1,3-Dichlorobenzene	ND		590	µg/Kg-dry	1000	4/23/2011 09:30 AM
1,3-Dichloropropane	ND		590	µg/Kg-dry	1000	4/23/2011 09:30 AM
1,4-Dichlorobenzene	ND		590	µg/Kg-dry	1000	4/23/2011 09:30 AM
2,2-Dichloropropane	ND		590	µg/Kg-dry	1000	4/23/2011 09:30 AM
2-Butanone	ND		8,800	µg/Kg-dry	1000	4/23/2011 09:30 AM
2-Chlorotoluene	ND		590	µg/Kg-dry	1000	4/23/2011 09:30 AM

KH 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-28
Collection Date: 4/20/2011 12:00 PM

Work Order: 1104520
Lab ID: 1104520-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed	
2-Hexanone	ND		5,900	µg/Kg-dry	1000	4/23/2011 09:30 AM	
2-Methylnaphthalene	**53,000**		**3,500**	**µg/Kg-dry**	1000	4/23/2011 09:30 AM	
4-Chlorotoluene	ND		2,400	µg/Kg-dry	1000	4/23/2011 09:30 AM	KB
4-Methyl-2-pentanone	ND	UJ	5,900	µg/Kg-dry	1000	4/23/2011 09:30 AM	5/2/11
Acetone	ND		5,300	µg/Kg-dry	1000	4/23/2011 09:30 AM	
Acrylonitrile	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM	
Benzene	ND		590	µg/Kg-dry	1000	4/23/2011 09:30 AM	
Bromobenzene	ND		1,800	µg/Kg-dry	1000	4/23/2011 09:30 AM	
Bromochloromethane	ND		1,800	µg/Kg-dry	1000	4/23/2011 09:30 AM	
Bromodichloromethane	ND		1,800	µg/Kg-dry	1000	4/23/2011 09:30 AM	
Bromoform	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM	
Carbon disulfide	ND		1,800	µg/Kg-dry	1000	4/23/2011 09:30 AM	
Carbon tetrachloride	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM	
Chlorobenzene	ND		1,800	µg/Kg-dry	1000	4/23/2011 09:30 AM	
Chloroethane	ND		3,500	µg/Kg-dry	1000	4/23/2011 09:30 AM	
Chloroform	ND		1,200	µg/Kg-dry	1000	4/25/2011 09:10 AM	
Chloromethane	ND		3,500	µg/Kg-dry	1000	4/23/2011 09:30 AM	
cis-1,2-Dichloroethene	ND		2,400	µg/Kg-dry	1000	4/23/2011 09:30 AM	
cis-1,3-Dichloropropene	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM	
Dibromochloromethane	ND		2,400	µg/Kg-dry	1000	4/23/2011 09:30 AM	
Dibromomethane	ND		2,400	µg/Kg-dry	1000	4/23/2011 09:30 AM	
Dichlorodifluoromethane	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM	
Diethyl ether	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM	
Diisopropyl ether	ND		5,900	µg/Kg-dry	1000	4/23/2011 09:30 AM	
Ethyl tert butyl ether	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM	
Ethylbenzene	**69,000**		**2,400**	**µg/Kg-dry**	1000	4/23/2011 09:30 AM	
Heptane	**17,000**		**1,200**	**µg/Kg-dry**	1000	4/23/2011 09:30 AM	
Hexachlorobutadiene	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM	
Hexachloroethane	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM	
Hexane	**19,000**		**3,500**	**µg/Kg-dry**	1000	4/23/2011 09:30 AM	
Iodomethane	ND		2,900	µg/Kg-dry	1000	4/23/2011 09:30 AM	
Isopropylbenzene	**11,000**		**1,200**	**µg/Kg-dry**	1000	4/23/2011 09:30 AM	
m,p-Xylene	**320,000**		**24,000**	**µg/Kg-dry**	10000	4/21/2011 11:11 PM	KB
Methyl tert-butyl ether	ND	UJ	1,800	µg/Kg-dry	1000	4/23/2011 09:30 AM	5/2/11
Methylene chloride	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM	
n-Butylbenzene	**25,000**		**590**	**µg/Kg-dry**	1000	4/23/2011 09:30 AM	
n-Propylbenzene	**20,000**		**2,400**	**µg/Kg-dry**	1000	4/23/2011 09:30 AM	
Naphthalene	**68,000**		**2,400**	**µg/Kg-dry**	1000	4/23/2011 09:30 AM	
o-Xylene	**110,000**		**12,000**	**µg/Kg-dry**	10000	4/21/2011 11:11 PM	
p-Isopropyltoluene	**190,000**		**12,000**	**µg/Kg-dry**	10000	4/21/2011 11:11 PM	

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-28
Collection Date: 4/20/2011 12:00 PM

Work Order: 1104520
Lab ID: 1104520-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	**7,200**		**1,200**	**µg/Kg-dry**	1000	4/23/2011 09:30 AM
Styrene	ND		1,800	µg/Kg-dry	1000	4/23/2011 09:30 AM
tert-Amyl methyl ether	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM
tert-Butyl alcohol	ND		5,900	µg/Kg-dry	1000	4/23/2011 09:30 AM
tert-Butylbenzene	**2,900**		**1,800**	**µg/Kg-dry**	1000	4/23/2011 09:30 AM
Tetrachloroethene	**3,700**		**590**	**µg/Kg-dry**	1000	4/23/2011 09:30 AM
Tetrahydrofuran	ND		1,800	µg/Kg-dry	1000	4/23/2011 09:30 AM
Toluene	**64,000**		**1,800**	**µg/Kg-dry**	1000	4/23/2011 09:30 AM
trans-1,2-Dichloroethene	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM
trans-1,3-Dichloropropene	ND		1,800	µg/Kg-dry	1000	4/23/2011 09:30 AM
trans-1,4-Dichloro-2-butene	ND		4,100	µg/Kg-dry	1000	4/23/2011 09:30 AM
Trichloroethene	ND		590	µg/Kg-dry	1000	4/23/2011 09:30 AM
Trichlorofluoromethane	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM
Vinyl acetate	ND		18,000	µg/Kg-dry	1000	4/23/2011 09:30 AM
Vinyl chloride	ND		470	µg/Kg-dry	1000	4/23/2011 09:30 AM
1,2-Dichloroethene, Total	ND		2,900	µg/Kg-dry	1000	4/23/2011 09:30 AM
1,3-Dichloropropene, Total	ND		1,200	µg/Kg-dry	1000	4/23/2011 09:30 AM
Xylenes, Total	**430,000**		**35,000**	**µg/Kg-dry**	10000	4/21/2011 11:11 PM
Surr: 1,2-Dichloroethane-d4	*99.3*		*70-120*	*%REC*	1000	4/23/2011 09:30 AM
Surr: 1,2-Dichloroethane-d4	*102*		*70-120*	*%REC*	1000	4/25/2011 09:10 AM
Surr: 1,2-Dichloroethane-d4	*99.6*		*70-120*	*%REC*	10000	4/21/2011 11:11 PM
Surr: 4-Bromofluorobenzene	*102*		*75-120*	*%REC*	10000	4/21/2011 11:11 PM
Surr: 4-Bromofluorobenzene	*112*		*75-120*	*%REC*	1000	4/23/2011 09:30 AM
Surr: 4-Bromofluorobenzene	*133*	S	*75-120*	*%REC*	1000	4/25/2011 09:10 AM
Surr: Dibromofluoromethane	*99.5*		*85-115*	*%REC*	10000	4/21/2011 11:11 PM
Surr: Dibromofluoromethane	*97.4*		*85-115*	*%REC*	1000	4/23/2011 09:30 AM
Surr: Dibromofluoromethane	*95.2*		*85-115*	*%REC*	1000	4/25/2011 09:10 AM
Surr: Toluene-d8	*100*		*85-115*	*%REC*	1000	4/25/2011 09:10 AM
Surr: Toluene-d8	*97.5*		*85-115*	*%REC*	10000	4/21/2011 11:11 PM
Surr: Toluene-d8	*99.7*		*85-115*	*%REC*	1000	4/23/2011 09:30 AM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**15**		**0.050**	**% of sample**	1	4/21/2011 11:52 AM

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-29
Collection Date: 4/20/2011 12:05 PM

Work Order: 1104520
Lab ID: 1104520-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **4/21/2011**	Analyst: **JD**
Aroclor 1016	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1221	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1232	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1242	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1248	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1254	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1260	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1262	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1268	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Surr: Decachlorobiphenyl	*83.1*		*40-140*	*%REC*	1	4/22/2011 10:11 AM
METALS BY ICP-MS			**SW6020A**		Prep Date: **4/21/2011**	Analyst: **CES**
Arsenic	ND		0.95	mg/Kg-dry	5	4/22/2011 12:57 PM KA
Lead	**11**	J	**0.095**	**mg/Kg-dry**	5	4/22/2011 12:57 PM 5/2/11
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **BG**
1,1,1,2-Tetrachloroethane	ND		180	µg/Kg-dry	100	4/23/2011 06:29 AM
1,1,1-Trichloroethane	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
1,1,2,2-Tetrachloroethane	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
1,1,2-Trichloroethane	ND		59	µg/Kg-dry	100	4/23/2011 06:29 AM
1,1,2-Trichlorotrifluoroethane	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
1,1-Dichloroethane	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
1,1-Dichloroethene	ND		59	µg/Kg-dry	100	4/23/2011 06:29 AM
1,1-Dichloropropene	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
1,2,3-Trichlorobenzene	ND		230	µg/Kg-dry	100	4/23/2011 06:29 AM
1,2,3-Trichloropropane	ND		230	µg/Kg-dry	100	4/23/2011 06:29 AM
1,2,4-Trichlorobenzene	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
1,2,4-Trimethylbenzene	**230**		**120**	**µg/Kg-dry**	100	4/23/2011 06:29 AM
1,2-Dibromo-3-chloropropane	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
1,2-Dibromoethane	ND		180	µg/Kg-dry	100	4/23/2011 06:29 AM
1,2-Dichlorobenzene	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
1,2-Dichloroethane	ND		59	µg/Kg-dry	100	4/23/2011 06:29 AM
1,2-Dichloropropane	ND		59	µg/Kg-dry	100	4/23/2011 06:29 AM
1,3,5-Trimethylbenzene	**140**		**120**	**µg/Kg-dry**	100	4/23/2011 06:29 AM
1,3-Dichlorobenzene	ND		59	µg/Kg-dry	100	4/23/2011 06:29 AM
1,3-Dichloropropane	ND		59	µg/Kg-dry	100	4/23/2011 06:29 AM
1,4-Dichlorobenzene	ND		59	µg/Kg-dry	100	4/23/2011 06:29 AM
2,2-Dichloropropane	ND		59	µg/Kg-dry	100	4/23/2011 06:29 AM
2-Butanone	ND		880	µg/Kg-dry	100	4/23/2011 06:29 AM
2-Chlorotoluene	ND		59	µg/Kg-dry	100	4/23/2011 06:29 AM

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-29
Collection Date: 4/20/2011 12:05 PM

Work Order: 1104520
Lab ID: 1104520-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Hexanone	ND		590	µg/Kg-dry	100	4/23/2011 06:29 AM
2-Methylnaphthalene	**360**		**350**	**µg/Kg-dry**	100	4/23/2011 06:29 AM KA
4-Chlorotoluene	ND		230	µg/Kg-dry	100	4/23/2011 06:29 AM
4-Methyl-2-pentanone	ND	UJ	590	µg/Kg-dry	100	4/23/2011 06:29 AM 5/2/11
Acetone	ND		530	µg/Kg-dry	100	4/23/2011 06:29 AM
Acrylonitrile	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
Benzene	ND		59	µg/Kg-dry	100	4/23/2011 06:29 AM
Bromobenzene	ND		180	µg/Kg-dry	100	4/23/2011 06:29 AM
Bromochloromethane	ND		180	µg/Kg-dry	100	4/23/2011 06:29 AM
Bromodichloromethane	ND		180	µg/Kg-dry	100	4/23/2011 06:29 AM
Bromoform	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
Carbon disulfide	ND		180	µg/Kg-dry	100	4/23/2011 06:29 AM
Carbon tetrachloride	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
Chlorobenzene	ND		180	µg/Kg-dry	100	4/23/2011 06:29 AM
Chloroethane	ND		350	µg/Kg-dry	100	4/23/2011 06:29 AM
Chloroform	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
Chloromethane	ND		350	µg/Kg-dry	100	4/23/2011 06:29 AM
cis-1,2-Dichloroethene	ND		230	µg/Kg-dry	100	4/23/2011 06:29 AM
cis-1,3-Dichloropropene	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
Dibromochloromethane	ND		230	µg/Kg-dry	100	4/23/2011 06:29 AM
Dibromomethane	ND		230	µg/Kg-dry	100	4/23/2011 06:29 AM
Dichlorodifluoromethane	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
Diethyl ether	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
Diisopropyl ether	ND		590	µg/Kg-dry	100	4/23/2011 06:29 AM
Ethyl tert butyl ether	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
Ethylbenzene	ND		230	µg/Kg-dry	100	4/23/2011 06:29 AM
Heptane	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
Hexachlorobutadiene	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
Hexachloroethane	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
Hexane	ND		350	µg/Kg-dry	100	4/23/2011 06:29 AM
Iodomethane	ND		290	µg/Kg-dry	100	4/23/2011 06:29 AM
Isopropylbenzene	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM KA
m,p-Xylene	**ND**		**230**	**µg/Kg-dry**	100	4/23/2011 06:29 AM 5/2/11
Methyl tert-butyl ether	ND	UJ	180	µg/Kg-dry	100	4/23/2011 06:29 AM
Methylene chloride	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
n-Butylbenzene	ND		59	µg/Kg-dry	100	4/23/2011 06:29 AM
n-Propylbenzene	ND		230	µg/Kg-dry	100	4/23/2011 06:29 AM
Naphthalene	**380**		**230**	**µg/Kg-dry**	100	4/23/2011 06:29 AM
o-Xylene	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
p-Isopropyltoluene	**350**		**120**	**µg/Kg-dry**	100	4/23/2011 06:29 AM

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-29
Collection Date: 4/20/2011 12:05 PM

Work Order: 1104520
Lab ID: 1104520-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
Styrene	ND		180	µg/Kg-dry	100	4/23/2011 06:29 AM
tert-Amyl methyl ether	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
tert-Butyl alcohol	ND		590	µg/Kg-dry	100	4/23/2011 06:29 AM
tert-Butylbenzene	ND		180	µg/Kg-dry	100	4/23/2011 06:29 AM
Tetrachloroethene	ND		59	µg/Kg-dry	100	4/23/2011 06:29 AM
Tetrahydrofuran	ND		180	µg/Kg-dry	100	4/23/2011 06:29 AM
Toluene	ND		180	µg/Kg-dry	100	4/23/2011 06:29 AM
trans-1,2-Dichloroethene	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
trans-1,3-Dichloropropene	ND		180	µg/Kg-dry	100	4/23/2011 06:29 AM
trans-1,4-Dichloro-2-butene	ND		410	µg/Kg-dry	100	4/23/2011 06:29 AM
Trichloroethene	ND		59	µg/Kg-dry	100	4/23/2011 06:29 AM
Trichlorofluoromethane	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
Vinyl acetate	ND		1,800	µg/Kg-dry	100	4/23/2011 06:29 AM
Vinyl chloride	ND		47	µg/Kg-dry	100	4/23/2011 06:29 AM
1,2-Dichloroethene, Total	ND		290	µg/Kg-dry	100	4/23/2011 06:29 AM
1,3-Dichloropropene, Total	ND		120	µg/Kg-dry	100	4/23/2011 06:29 AM
Xylenes, Total	ND		350	µg/Kg-dry	100	4/23/2011 06:29 AM
Surr: 1,2-Dichloroethane-d4	*102*		*70-120*	*%REC*	100	4/23/2011 06:29 AM
Surr: 4-Bromofluorobenzene	*100*		*75-120*	*%REC*	100	4/23/2011 06:29 AM
Surr: Dibromofluoromethane	*96.9*		*85-115*	*%REC*	100	4/23/2011 06:29 AM
Surr: Toluene-d8	*99.2*		*85-115*	*%REC*	100	4/23/2011 06:29 AM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**15**		**0.050**	**% of sample**	1	4/21/2011 11:52 AM

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-30
Collection Date: 4/20/2011 12:10 PM

Work Order: 1104520
Lab ID: 1104520-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **4/21/2011**	Analyst: **JD**
Aroclor 1016	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1221	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1232	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1242	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1248	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1254	**700**		**45**	**µg/Kg-dry**	1	4/22/2011 10:11 AM
Aroclor 1260	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1262	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1268	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Surr: Decachlorobiphenyl	*55.1*		*40-140*	*%REC*	1	4/22/2011 10:11 AM
METALS BY ICP-MS			**SW6020A**		Prep Date: **4/21/2011**	Analyst: **CES**
Arsenic	**1.5**		**0.83**	**mg/Kg-dry**	5	4/22/2011 01:03 PM
Lead	**14**	J	**0.083**	**mg/Kg-dry**	5	4/22/2011 01:03 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **BG**
1,1,1,2-Tetrachloroethane	ND		340	µg/Kg-dry	200	4/23/2011 09:04 AM
1,1,1-Trichloroethane	ND		220	µg/Kg-dry	200	4/23/2011 09:04 AM
1,1,2,2-Tetrachloroethane	ND		220	µg/Kg-dry	200	4/23/2011 09:04 AM
1,1,2-Trichloroethane	ND		110	µg/Kg-dry	200	4/23/2011 09:04 AM
1,1,2-Trichlorotrifluoroethane	ND		220	µg/Kg-dry	200	4/23/2011 09:04 AM
1,1-Dichloroethane	ND		220	µg/Kg-dry	200	4/23/2011 09:04 AM
1,1-Dichloroethene	ND		110	µg/Kg-dry	200	4/23/2011 09:04 AM
1,1-Dichloropropene	ND		220	µg/Kg-dry	200	4/23/2011 09:04 AM
1,2,3-Trichlorobenzene	ND		450	µg/Kg-dry	200	4/23/2011 09:04 AM
1,2,3-Trichloropropane	ND		450	µg/Kg-dry	200	4/23/2011 09:04 AM
1,2,4-Trichlorobenzene	**670**		**220**	**µg/Kg-dry**	200	4/23/2011 09:04 AM
1,2,4-Trimethylbenzene	**31,000**		**1,100**	**µg/Kg-dry**	1000	4/21/2011 10:46 PM
1,2-Dibromo-3-chloropropane	ND		220	µg/Kg-dry	200	4/23/2011 09:04 AM
1,2-Dibromoethane	ND		340	µg/Kg-dry	200	4/23/2011 09:04 AM
1,2-Dichlorobenzene	**490**		**220**	**µg/Kg-dry**	200	4/23/2011 09:04 AM
1,2-Dichloroethane	ND		110	µg/Kg-dry	200	4/23/2011 09:04 AM
1,2-Dichloropropane	ND		110	µg/Kg-dry	200	4/23/2011 09:04 AM
1,3,5-Trimethylbenzene	**18,000**		**220**	**µg/Kg-dry**	200	4/23/2011 09:04 AM
1,3-Dichlorobenzene	ND		110	µg/Kg-dry	200	4/23/2011 09:04 AM
1,3-Dichloropropane	ND		110	µg/Kg-dry	200	4/23/2011 09:04 AM
1,4-Dichlorobenzene	ND		110	µg/Kg-dry	200	4/23/2011 09:04 AM
2,2-Dichloropropane	ND		110	µg/Kg-dry	200	4/23/2011 09:04 AM
2-Butanone	ND		1,700	µg/Kg-dry	200	4/23/2011 09:04 AM
2-Chlorotoluene	ND		110	µg/Kg-dry	200	4/23/2011 09:04 AM

KA 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-30
Collection Date: 4/20/2011 12:10 PM

Work Order: 1104520
Lab ID: 1104520-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Hexanone	ND		1,100	µg/Kg-dry	200	4/23/2011 09:04 AM
2-Methylnaphthalene	**7,800**		**3,400**	**µg/Kg-dry**	1000	4/21/2011 10:46 PM
4-Chlorotoluene	ND		450	µg/Kg-dry	200	4/23/2011 09:04 AM
4-Methyl-2-pentanone	ND	UJ	1,100	µg/Kg-dry	200	4/23/2011 09:04 AM
Acetone	ND		1,000	µg/Kg-dry	200	4/23/2011 09:04 AM
Acrylonitrile	ND		220	µg/Kg-dry	200	4/23/2011 09:04 AM
Benzene	**120**		**110**	**µg/Kg-dry**	200	4/23/2011 09:04 AM
Bromobenzene	ND		340	µg/Kg-dry	200	4/23/2011 09:04 AM
Bromochloromethane	ND		340	µg/Kg-dry	200	4/23/2011 09:04 AM
Bromodichloromethane	ND		340	µg/Kg-dry	200	4/23/2011 09:04 AM
Bromoform	ND		220	µg/Kg-dry	200	4/23/2011 09:04 AM
Carbon disulfide	ND		340	µg/Kg-dry	200	4/23/2011 09:04 AM
Carbon tetrachloride	ND		220	µg/Kg-dry	200	4/23/2011 09:04 AM
Chlorobenzene	**ND**		**340**	**µg/Kg-dry**	200	4/23/2011 09:04 AM
Chloroethane	ND		670	µg/Kg-dry	200	4/23/2011 09:04 AM
Chloroform	ND		220	µg/Kg-dry	200	4/24/2011 07:10 AM
Chloromethane	ND		670	µg/Kg-dry	200	4/23/2011 09:04 AM
cis-1,2-Dichloroethene	ND		450	µg/Kg-dry	200	4/23/2011 09:04 AM
cis-1,3-Dichloropropene	ND		220	µg/Kg-dry	200	4/23/2011 09:04 AM
Dibromochloromethane	ND		450	µg/Kg-dry	200	4/23/2011 09:04 AM
Dibromomethane	ND		450	µg/Kg-dry	200	4/23/2011 09:04 AM
Dichlorodifluoromethane	ND		220	µg/Kg-dry	200	4/23/2011 09:04 AM
Diethyl ether	ND		220	µg/Kg-dry	200	4/23/2011 09:04 AM
Diisopropyl ether	ND		1,100	µg/Kg-dry	200	4/23/2011 09:04 AM
Ethyl tert butyl ether	ND		220	µg/Kg-dry	200	4/23/2011 09:04 AM
Ethylbenzene	**1,300**		**450**	**µg/Kg-dry**	200	4/23/2011 09:04 AM
Heptane	**ND**		**220**	**µg/Kg-dry**	200	4/23/2011 09:04 AM
Hexachlorobutadiene	ND		220	µg/Kg-dry	200	4/23/2011 09:04 AM
Hexachloroethane	ND		220	µg/Kg-dry	200	4/23/2011 09:04 AM
Hexane	ND		670	µg/Kg-dry	200	4/23/2011 09:04 AM
Iodomethane	ND		560	µg/Kg-dry	200	4/23/2011 09:04 AM
Isopropylbenzene	**490**		**220**	**µg/Kg-dry**	200	4/23/2011 09:04 AM
m,p-Xylene	**14,000**		**450**	**µg/Kg-dry**	200	4/23/2011 09:04 AM
Methyl tert-butyl ether	ND	UJ	340	µg/Kg-dry	200	4/23/2011 09:04 AM
Methylene chloride	ND		220	µg/Kg-dry	200	4/23/2011 09:04 AM
n-Butylbenzene	**6,600**		**110**	**µg/Kg-dry**	200	4/23/2011 09:04 AM
n-Propylbenzene	**870**		**450**	**µg/Kg-dry**	200	4/23/2011 09:04 AM
Naphthalene	**2,800**		**450**	**µg/Kg-dry**	200	4/23/2011 09:04 AM
o-Xylene	**600**		**220**	**µg/Kg-dry**	200	4/23/2011 09:04 AM
p-Isopropyltoluene	**23,000**		**1,100**	**µg/Kg-dry**	1000	4/21/2011 10:46 PM

KAA 5/2/11

KAA 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-30
Collection Date: 4/20/2011 12:10 PM

Work Order: 1104520
Lab ID: 1104520-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	**1,300**		**220**	**µg/Kg-dry**	200	4/23/2011 09:04 AM
Styrene	ND		340	µg/Kg-dry	200	4/23/2011 09:04 AM
tert-Amyl methyl ether	ND		220	µg/Kg-dry	200	4/23/2011 09:04 AM
tert-Butyl alcohol	ND		1,100	µg/Kg-dry	200	4/23/2011 09:04 AM
tert-Butylbenzene	ND		340	µg/Kg-dry	200	4/23/2011 09:04 AM
Tetrachloroethene	ND		110	µg/Kg-dry	200	4/23/2011 09:04 AM
Tetrahydrofuran	ND		340	µg/Kg-dry	200	4/23/2011 09:04 AM
Toluene	**ND**		**340**	**µg/Kg-dry**	200	4/23/2011 09:04 AM
trans-1,2-Dichloroethene	ND		220	µg/Kg-dry	200	4/23/2011 09:04 AM
trans-1,3-Dichloropropene	ND		340	µg/Kg-dry	200	4/23/2011 09:04 AM
trans-1,4-Dichloro-2-butene	ND		790	µg/Kg-dry	200	4/23/2011 09:04 AM
Trichloroethene	ND		110	µg/Kg-dry	200	4/23/2011 09:04 AM
Trichlorofluoromethane	ND		220	µg/Kg-dry	200	4/23/2011 09:04 AM
Vinyl acetate	ND		3,400	µg/Kg-dry	200	4/23/2011 09:04 AM
Vinyl chloride	ND		90	µg/Kg-dry	200	4/23/2011 09:04 AM
1,2-Dichloroethene, Total	ND		560	µg/Kg-dry	200	4/23/2011 09:04 AM
1,3-Dichloropropene, Total	ND		220	µg/Kg-dry	200	4/23/2011 09:04 AM
Xylenes, Total	**14,000**		**670**	**µg/Kg-dry**	200	4/23/2011 09:04 AM
Surr: 1,2-Dichloroethane-d4	*101*		*70-120*	*%REC*	200	4/23/2011 09:04 AM
Surr: 1,2-Dichloroethane-d4	*107*		*70-120*	*%REC*	200	4/24/2011 07:10 AM
Surr: 1,2-Dichloroethane-d4	*99.9*		*70-120*	*%REC*	1000	4/21/2011 10:46 PM
Surr: 4-Bromofluorobenzene	*107*		*75-120*	*%REC*	1000	4/21/2011 10:46 PM
Surr: 4-Bromofluorobenzene	*141*	S	*75-120*	*%REC*	200	4/23/2011 09:04 AM
Surr: 4-Bromofluorobenzene	*137*	S	*75-120*	*%REC*	200	4/24/2011 07:10 AM
Surr: Dibromofluoromethane	*98.7*		*85-115*	*%REC*	1000	4/21/2011 10:46 PM
Surr: Dibromofluoromethane	*97.0*		*85-115*	*%REC*	200	4/23/2011 09:04 AM
Surr: Dibromofluoromethane	*98.6*		*85-115*	*%REC*	200	4/24/2011 07:10 AM
Surr: Toluene-d8	*97.2*		*85-115*	*%REC*	200	4/24/2011 07:10 AM
Surr: Toluene-d8	*97.7*		*85-115*	*%REC*	1000	4/21/2011 10:46 PM
Surr: Toluene-d8	*99.9*		*85-115*	*%REC*	200	4/23/2011 09:04 AM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**11**		**0.050**	**% of sample**	1	4/21/2011 11:52 AM

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-31
Collection Date: 4/20/2011 12:15 PM

Work Order: 1104520
Lab ID: 1104520-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **4/21/2011**	Analyst: **JD**
Aroclor 1016	ND		43	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1221	ND		43	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1232	ND		43	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1242	ND		43	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1248	ND		43	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1254	ND		43	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1260	ND		43	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1262	ND		43	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1268	ND		43	µg/Kg-dry	1	4/22/2011 10:11 AM
Surr: Decachlorobiphenyl	*65.1*		*40-140*	*%REC*	1	4/22/2011 10:11 AM
METALS BY ICP-MS			**SW6020A**		Prep Date: **4/21/2011**	Analyst: **CES**
Arsenic	ND		2.1	mg/Kg-dry	10	4/22/2011 01:10 PM KA
Lead	**11**	J	**0.21**	**mg/Kg-dry**	10	4/22/2011 01:10 PM 5/2/11
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **BG**
1,1,1,2-Tetrachloroethane	ND		190	µg/Kg-dry	111	4/21/2011 09:04 PM
1,1,1-Trichloroethane	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
1,1,2,2-Tetrachloroethane	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
1,1,2-Trichloroethane	ND		64	µg/Kg-dry	111	4/21/2011 09:04 PM
1,1,2-Trichlorotrifluoroethane	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
1,1-Dichloroethane	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
1,1-Dichloroethene	ND		64	µg/Kg-dry	111	4/21/2011 09:04 PM
1,1-Dichloropropene	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
1,2,3-Trichlorobenzene	ND		260	µg/Kg-dry	111	4/21/2011 09:04 PM
1,2,3-Trichloropropane	ND		260	µg/Kg-dry	111	4/21/2011 09:04 PM
1,2,4-Trichlorobenzene	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
1,2,4-Trimethylbenzene	**1,000**		**130**	**µg/Kg-dry**	111	4/21/2011 09:04 PM
1,2-Dibromo-3-chloropropane	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
1,2-Dibromoethane	ND		190	µg/Kg-dry	111	4/21/2011 09:04 PM
1,2-Dichlorobenzene	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
1,2-Dichloroethane	ND		64	µg/Kg-dry	111	4/21/2011 09:04 PM
1,2-Dichloropropane	ND		64	µg/Kg-dry	111	4/21/2011 09:04 PM
1,3,5-Trimethylbenzene	**470**		**130**	**µg/Kg-dry**	111	4/21/2011 09:04 PM
1,3-Dichlorobenzene	ND		64	µg/Kg-dry	111	4/21/2011 09:04 PM
1,3-Dichloropropane	ND		64	µg/Kg-dry	111	4/21/2011 09:04 PM
1,4-Dichlorobenzene	ND		64	µg/Kg-dry	111	4/21/2011 09:04 PM KA
2,2-Dichloropropane	ND	UJ	64	µg/Kg-dry	111	4/21/2011 09:04 PM 5/2/11
2-Butanone	ND		960	µg/Kg-dry	111	4/21/2011 09:04 PM
2-Chlorotoluene	ND		64	µg/Kg-dry	111	4/21/2011 09:04 PM

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-31
Collection Date: 4/20/2011 12:15 PM

Work Order: 1104520
Lab ID: 1104520-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Hexanone	ND		640	µg/Kg-dry	111	4/21/2011 09:04 PM
2-Methylnaphthalene	**830**		**380**	**µg/Kg-dry**	111	4/21/2011 09:04 PM
4-Chlorotoluene	ND		260	µg/Kg-dry	111	4/21/2011 09:04 PM
4-Methyl-2-pentanone	ND		640	µg/Kg-dry	111	4/21/2011 09:04 PM
Acetone	ND		580	µg/Kg-dry	111	4/21/2011 09:04 PM
Acrylonitrile	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
Benzene	ND		64	µg/Kg-dry	111	4/21/2011 09:04 PM
Bromobenzene	ND		190	µg/Kg-dry	111	4/21/2011 09:04 PM
Bromochloromethane	ND		190	µg/Kg-dry	111	4/21/2011 09:04 PM
Bromodichloromethane	ND		190	µg/Kg-dry	111	4/21/2011 09:04 PM
Bromoform	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
Carbon disulfide	ND		190	µg/Kg-dry	111	4/21/2011 09:04 PM
Carbon tetrachloride	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
Chlorobenzene	ND		190	µg/Kg-dry	111	4/21/2011 09:04 PM KA
Chloroethane	ND	UJ	380	µg/Kg-dry	111	4/21/2011 09:04 PM 5/2/11
Chloroform	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
Chloromethane	ND	UJ	380	µg/Kg-dry	111	4/21/2011 09:04 PM
cis-1,2-Dichloroethene	ND		260	µg/Kg-dry	111	4/21/2011 09:04 PM
cis-1,3-Dichloropropene	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
Dibromochloromethane	ND		260	µg/Kg-dry	111	4/21/2011 09:04 PM
Dibromomethane	ND		260	µg/Kg-dry	111	4/21/2011 09:04 PM
Dichlorodifluoromethane	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
Diethyl ether	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
Diisopropyl ether	ND		640	µg/Kg-dry	111	4/21/2011 09:04 PM
Ethyl tert butyl ether	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
Ethylbenzene	ND		260	µg/Kg-dry	111	4/21/2011 09:04 PM
Heptane	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
Hexachlorobutadiene	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
Hexachloroethane	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
Hexane	ND		380	µg/Kg-dry	111	4/21/2011 09:04 PM KA
Iodomethane	ND	UJ	320	µg/Kg-dry	111	4/21/2011 09:04 PM 5/2/11
Isopropylbenzene	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
m,p-Xylene	**ND**		**260**	**µg/Kg-dry**	111	4/21/2011 09:04 PM
Methyl tert-butyl ether	ND		190	µg/Kg-dry	111	4/21/2011 09:04 PM
Methylene chloride	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
n-Butylbenzene	**250**		**64**	**µg/Kg-dry**	111	4/21/2011 09:04 PM
n-Propylbenzene	ND		260	µg/Kg-dry	111	4/21/2011 09:04 PM
Naphthalene	**600**		**260**	**µg/Kg-dry**	111	4/21/2011 09:04 PM
o-Xylene	**210**		**130**	**µg/Kg-dry**	111	4/21/2011 09:04 PM
p-Isopropyltoluene	**510**		**130**	**µg/Kg-dry**	111	4/21/2011 09:04 PM

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-31
Collection Date: 4/20/2011 12:15 PM

Work Order: 1104520
Lab ID: 1104520-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
Styrene	ND		190	µg/Kg-dry	111	4/21/2011 09:04 PM
tert-Amyl methyl ether	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
tert-Butyl alcohol	ND		640	µg/Kg-dry	111	4/21/2011 09:04 PM
tert-Butylbenzene	ND		190	µg/Kg-dry	111	4/21/2011 09:04 PM
Tetrachloroethene	ND		64	µg/Kg-dry	111	4/21/2011 09:04 PM
Tetrahydrofuran	ND		190	µg/Kg-dry	111	4/21/2011 09:04 PM
Toluene	ND		190	µg/Kg-dry	111	4/21/2011 09:04 PM
trans-1,2-Dichloroethene	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
trans-1,3-Dichloropropene	ND		190	µg/Kg-dry	111	4/21/2011 09:04 PM
trans-1,4-Dichloro-2-butene	ND	UJ	450	µg/Kg-dry	111	4/21/2011 09:04 PM
Trichloroethene	ND		64	µg/Kg-dry	111	4/21/2011 09:04 PM
Trichlorofluoromethane	ND	UJ	130	µg/Kg-dry	111	4/21/2011 09:04 PM
Vinyl acetate	ND		1,900	µg/Kg-dry	111	4/21/2011 09:04 PM
Vinyl chloride	ND	UJ	51	µg/Kg-dry	111	4/21/2011 09:04 PM
1,2-Dichloroethene, Total	ND		320	µg/Kg-dry	111	4/21/2011 09:04 PM
1,3-Dichloropropene, Total	ND		130	µg/Kg-dry	111	4/21/2011 09:04 PM
Xylenes, Total	**460**		**380**	**µg/Kg-dry**	111	4/21/2011 09:04 PM
Surr: 1,2-Dichloroethane-d4	*98.4*		*70-120*	*%REC*	111	4/21/2011 09:04 PM
Surr: 4-Bromofluorobenzene	*101*		*75-120*	*%REC*	111	4/21/2011 09:04 PM
Surr: Dibromofluoromethane	*93.2*		*85-115*	*%REC*	111	4/21/2011 09:04 PM
Surr: Toluene-d8	*99.7*		*85-115*	*%REC*	111	4/21/2011 09:04 PM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**13**		**0.050**	**% of sample**	1	4/21/2011 11:52 AM

KA 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-32
Collection Date: 4/20/2011 12:20 PM

Work Order: 1104520
Lab ID: 1104520-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **4/21/2011**	Analyst: **JD**
Aroclor 1016	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1221	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1232	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1242	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1248	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1254	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1260	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1262	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1268	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Surr: Decachlorobiphenyl	*68.1*		*40-140*	*%REC*	1	4/22/2011 10:11 AM
METALS BY ICP-MS			**SW6020A**		Prep Date: **4/21/2011**	Analyst: **CES**
Arsenic	ND		0.99	mg/Kg-dry	5	4/22/2011 01:16 PM
Lead	**2.1**	J	**0.099**	**mg/Kg-dry**	5	4/22/2011 01:16 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **BG**
1,1,1,2-Tetrachloroethane	ND		180	µg/Kg-dry	100	4/21/2011 09:29 PM
1,1,1-Trichloroethane	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
1,1,2,2-Tetrachloroethane	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
1,1,2-Trichloroethane	ND		59	µg/Kg-dry	100	4/21/2011 09:29 PM
1,1,2-Trichlorotrifluoroethane	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
1,1-Dichloroethane	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
1,1-Dichloroethene	ND		59	µg/Kg-dry	100	4/21/2011 09:29 PM
1,1-Dichloropropene	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
1,2,3-Trichlorobenzene	ND		230	µg/Kg-dry	100	4/21/2011 09:29 PM
1,2,3-Trichloropropane	ND		230	µg/Kg-dry	100	4/21/2011 09:29 PM
1,2,4-Trichlorobenzene	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
1,2,4-Trimethylbenzene	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
1,2-Dibromo-3-chloropropane	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
1,2-Dibromoethane	ND		180	µg/Kg-dry	100	4/21/2011 09:29 PM
1,2-Dichlorobenzene	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
1,2-Dichloroethane	ND		59	µg/Kg-dry	100	4/21/2011 09:29 PM
1,2-Dichloropropane	ND		59	µg/Kg-dry	100	4/21/2011 09:29 PM
1,3,5-Trimethylbenzene	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
1,3-Dichlorobenzene	ND		59	µg/Kg-dry	100	4/21/2011 09:29 PM
1,3-Dichloropropane	ND		59	µg/Kg-dry	100	4/21/2011 09:29 PM
1,4-Dichlorobenzene	ND		59	µg/Kg-dry	100	4/21/2011 09:29 PM
2,2-Dichloropropane	ND	UJ	59	µg/Kg-dry	100	4/21/2011 09:29 PM
2-Butanone	ND		880	µg/Kg-dry	100	4/21/2011 09:29 PM
2-Chlorotoluene	ND		59	µg/Kg-dry	100	4/21/2011 09:29 PM

KA 5/2/11

KA 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-32
Collection Date: 4/20/2011 12:20 PM

Work Order: 1104520
Lab ID: 1104520-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Hexanone	ND		590	µg/Kg-dry	100	4/21/2011 09:29 PM
2-Methylnaphthalene	ND		350	µg/Kg-dry	100	4/21/2011 09:29 PM
4-Chlorotoluene	ND		230	µg/Kg-dry	100	4/21/2011 09:29 PM
4-Methyl-2-pentanone	ND		590	µg/Kg-dry	100	4/21/2011 09:29 PM
Acetone	ND		530	µg/Kg-dry	100	4/21/2011 09:29 PM
Acrylonitrile	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
Benzene	ND		59	µg/Kg-dry	100	4/21/2011 09:29 PM
Bromobenzene	ND		180	µg/Kg-dry	100	4/21/2011 09:29 PM
Bromochloromethane	ND		180	µg/Kg-dry	100	4/21/2011 09:29 PM
Bromodichloromethane	ND		180	µg/Kg-dry	100	4/21/2011 09:29 PM
Bromoform	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
Carbon disulfide	ND		180	µg/Kg-dry	100	4/21/2011 09:29 PM
Carbon tetrachloride	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
Chlorobenzene	ND		180	µg/Kg-dry	100	4/21/2011 09:29 PM
Chloroethane	ND	UJ	350	µg/Kg-dry	100	4/21/2011 09:29 PM KM 5/2/11
Chloroform	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
Chloromethane	ND	UJ	350	µg/Kg-dry	100	4/21/2011 09:29 PM
cis-1,2-Dichloroethene	ND		230	µg/Kg-dry	100	4/21/2011 09:29 PM
cis-1,3-Dichloropropene	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
Dibromochloromethane	ND		230	µg/Kg-dry	100	4/21/2011 09:29 PM
Dibromomethane	ND		230	µg/Kg-dry	100	4/21/2011 09:29 PM
Dichlorodifluoromethane	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
Diethyl ether	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
Diisopropyl ether	ND		590	µg/Kg-dry	100	4/21/2011 09:29 PM
Ethyl tert butyl ether	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
Ethylbenzene	ND		230	µg/Kg-dry	100	4/21/2011 09:29 PM
Heptane	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
Hexachlorobutadiene	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
Hexachloroethane	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
Hexane	ND		350	µg/Kg-dry	100	4/21/2011 09:29 PM
Iodomethane	ND	UJ	290	µg/Kg-dry	100	4/21/2011 09:29 PM KM 5/2/11
Isopropylbenzene	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
m,p-Xylene	ND		230	µg/Kg-dry	100	4/21/2011 09:29 PM
Methyl tert-butyl ether	ND		180	µg/Kg-dry	100	4/21/2011 09:29 PM
Methylene chloride	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
n-Butylbenzene	ND		59	µg/Kg-dry	100	4/21/2011 09:29 PM
n-Propylbenzene	ND		230	µg/Kg-dry	100	4/21/2011 09:29 PM
Naphthalene	ND		230	µg/Kg-dry	100	4/21/2011 09:29 PM
o-Xylene	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
p-Isopropyltoluene	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-32
Collection Date: 4/20/2011 12:20 PM

Work Order: 1104520
Lab ID: 1104520-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
Styrene	ND		180	µg/Kg-dry	100	4/21/2011 09:29 PM
tert-Amyl methyl ether	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
tert-Butyl alcohol	ND		590	µg/Kg-dry	100	4/21/2011 09:29 PM
tert-Butylbenzene	ND		180	µg/Kg-dry	100	4/21/2011 09:29 PM
Tetrachloroethene	ND		59	µg/Kg-dry	100	4/21/2011 09:29 PM
Tetrahydrofuran	ND		180	µg/Kg-dry	100	4/21/2011 09:29 PM
Toluene	ND		180	µg/Kg-dry	100	4/21/2011 09:29 PM
trans-1,2-Dichloroethene	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
trans-1,3-Dichloropropene	ND		180	µg/Kg-dry	100	4/21/2011 09:29 PM
trans-1,4-Dichloro-2-butene	ND	UJ	410	µg/Kg-dry	100	4/21/2011 09:29 PM
Trichloroethene	ND		59	µg/Kg-dry	100	4/21/2011 09:29 PM
Trichlorofluoromethane	ND	UJ	120	µg/Kg-dry	100	4/21/2011 09:29 PM
Vinyl acetate	ND		1,800	µg/Kg-dry	100	4/21/2011 09:29 PM
Vinyl chloride	ND	UJ	47	µg/Kg-dry	100	4/21/2011 09:29 PM
1,2-Dichloroethene, Total	ND		290	µg/Kg-dry	100	4/21/2011 09:29 PM
1,3-Dichloropropene, Total	ND		120	µg/Kg-dry	100	4/21/2011 09:29 PM
Xylenes, Total	ND		350	µg/Kg-dry	100	4/21/2011 09:29 PM
Surr: 1,2-Dichloroethane-d4	*98.3*		*70-120*	*%REC*	100	4/21/2011 09:29 PM
Surr: 4-Bromofluorobenzene	*99.8*		*75-120*	*%REC*	100	4/21/2011 09:29 PM
Surr: Dibromofluoromethane	*93.2*		*85-115*	*%REC*	100	4/21/2011 09:29 PM
Surr: Toluene-d8	*98.7*		*85-115*	*%REC*	100	4/21/2011 09:29 PM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**15**		**0.050**	**% of sample**	1	4/21/2011 11:52 AM

KH 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-FD-VS-32
Collection Date: 4/20/2011 12:25 PM

Work Order: 1104520
Lab ID: 1104520-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **4/21/2011**	Analyst: **JD**
Aroclor 1016	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1221	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1232	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1242	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1248	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1254	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1260	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1262	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Aroclor 1268	ND		45	µg/Kg-dry	1	4/22/2011 10:11 AM
Surr: Decachlorobiphenyl	*77.1*		*40-140*	*%REC*	1	4/22/2011 10:11 AM
METALS BY ICP-MS			**SW6020A**		Prep Date: **4/21/2011**	Analyst: **CES**
Arsenic	ND		0.98	mg/Kg-dry	5	4/22/2011 01:22 PM KH
Lead	**1.7**	J	**0.098**	**mg/Kg-dry**	5	4/22/2011 01:22 PM 5/2/11
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **BG**
1,1,1,2-Tetrachloroethane	ND		180	µg/Kg-dry	100	4/21/2011 09:55 PM
1,1,1-Trichloroethane	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM
1,1,2,2-Tetrachloroethane	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM
1,1,2-Trichloroethane	ND		59	µg/Kg-dry	100	4/21/2011 09:55 PM
1,1,2-Trichlorotrifluoroethane	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM
1,1-Dichloroethane	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM
1,1-Dichloroethene	ND		59	µg/Kg-dry	100	4/21/2011 09:55 PM
1,1-Dichloropropene	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM
1,2,3-Trichlorobenzene	ND		240	µg/Kg-dry	100	4/21/2011 09:55 PM
1,2,3-Trichloropropane	ND		240	µg/Kg-dry	100	4/21/2011 09:55 PM
1,2,4-Trichlorobenzene	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM
1,2,4-Trimethylbenzene	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM
1,2-Dibromo-3-chloropropane	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM
1,2-Dibromoethane	ND		180	µg/Kg-dry	100	4/21/2011 09:55 PM
1,2-Dichlorobenzene	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM
1,2-Dichloroethane	ND		59	µg/Kg-dry	100	4/21/2011 09:55 PM
1,2-Dichloropropane	ND		59	µg/Kg-dry	100	4/21/2011 09:55 PM
1,3,5-Trimethylbenzene	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM
1,3-Dichlorobenzene	ND		59	µg/Kg-dry	100	4/21/2011 09:55 PM
1,3-Dichloropropane	ND		59	µg/Kg-dry	100	4/21/2011 09:55 PM
1,4-Dichlorobenzene	ND		59	µg/Kg-dry	100	4/21/2011 09:55 PM KH
2,2-Dichloropropane	ND	UJ	59	µg/Kg-dry	100	4/21/2011 09:55 PM 5/2/11
2-Butanone	ND		890	µg/Kg-dry	100	4/21/2011 09:55 PM
2-Chlorotoluene	ND		59	µg/Kg-dry	100	4/21/2011 09:55 PM

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-FD-VS-32
Collection Date: 4/20/2011 12:25 PM

Work Order: 1104520
Lab ID: 1104520-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed	
2-Hexanone	ND		590	µg/Kg-dry	100	4/21/2011 09:55 PM	
2-Methylnaphthalene	ND		360	µg/Kg-dry	100	4/21/2011 09:55 PM	
4-Chlorotoluene	ND		240	µg/Kg-dry	100	4/21/2011 09:55 PM	
4-Methyl-2-pentanone	ND		590	µg/Kg-dry	100	4/21/2011 09:55 PM	
Acetone	ND		530	µg/Kg-dry	100	4/21/2011 09:55 PM	
Acrylonitrile	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM	
Benzene	ND		59	µg/Kg-dry	100	4/21/2011 09:55 PM	
Bromobenzene	ND		180	µg/Kg-dry	100	4/21/2011 09:55 PM	
Bromochloromethane	ND		180	µg/Kg-dry	100	4/21/2011 09:55 PM	
Bromodichloromethane	ND		180	µg/Kg-dry	100	4/21/2011 09:55 PM	
Bromoform	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM	
Carbon disulfide	ND		180	µg/Kg-dry	100	4/21/2011 09:55 PM	
Carbon tetrachloride	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM	
Chlorobenzene	ND		180	µg/Kg-dry	100	4/21/2011 09:55 PM	KH
Chloroethane	ND	UJ	360	µg/Kg-dry	100	4/21/2011 09:55 PM	
Chloroform	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM	5/2/11
Chloromethane	ND	UJ	360	µg/Kg-dry	100	4/21/2011 09:55 PM	
cis-1,2-Dichloroethene	ND		240	µg/Kg-dry	100	4/21/2011 09:55 PM	
cis-1,3-Dichloropropene	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM	
Dibromochloromethane	ND		240	µg/Kg-dry	100	4/21/2011 09:55 PM	
Dibromomethane	ND		240	µg/Kg-dry	100	4/21/2011 09:55 PM	
Dichlorodifluoromethane	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM	
Diethyl ether	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM	
Diisopropyl ether	ND		590	µg/Kg-dry	100	4/21/2011 09:55 PM	
Ethyl tert butyl ether	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM	
Ethylbenzene	ND		240	µg/Kg-dry	100	4/21/2011 09:55 PM	
Heptane	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM	
Hexachlorobutadiene	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM	
Hexachloroethane	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM	
Hexane	ND		360	µg/Kg-dry	100	4/21/2011 09:55 PM	KH
Iodomethane	ND	UJ	300	µg/Kg-dry	100	4/21/2011 09:55 PM	
Isopropylbenzene	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM	5/2/11
m,p-Xylene	ND		240	µg/Kg-dry	100	4/21/2011 09:55 PM	
Methyl tert-butyl ether	ND		180	µg/Kg-dry	100	4/21/2011 09:55 PM	
Methylene chloride	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM	
n-Butylbenzene	ND		59	µg/Kg-dry	100	4/21/2011 09:55 PM	
n-Propylbenzene	ND		240	µg/Kg-dry	100	4/21/2011 09:55 PM	
Naphthalene	ND		240	µg/Kg-dry	100	4/21/2011 09:55 PM	
o-Xylene	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM	
p-Isopropyltoluene	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM	

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-FD-VS-32
Collection Date: 4/20/2011 12:25 PM

Work Order: 1104520
Lab ID: 1104520-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM
Styrene	ND		180	µg/Kg-dry	100	4/21/2011 09:55 PM
tert-Amyl methyl ether	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM
tert-Butyl alcohol	ND		590	µg/Kg-dry	100	4/21/2011 09:55 PM
tert-Butylbenzene	ND		180	µg/Kg-dry	100	4/21/2011 09:55 PM
Tetrachloroethene	ND		59	µg/Kg-dry	100	4/21/2011 09:55 PM
Tetrahydrofuran	ND		180	µg/Kg-dry	100	4/21/2011 09:55 PM
Toluene	ND		180	µg/Kg-dry	100	4/21/2011 09:55 PM
trans-1,2-Dichloroethene	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM
trans-1,3-Dichloropropene	ND		180	µg/Kg-dry	100	4/21/2011 09:55 PM
trans-1,4-Dichloro-2-butene	ND	UJ	420	µg/Kg-dry	100	4/21/2011 09:55 PM
Trichloroethene	ND		59	µg/Kg-dry	100	4/21/2011 09:55 PM
Trichlorofluoromethane	ND	UJ	120	µg/Kg-dry	100	4/21/2011 09:55 PM
Vinyl acetate	ND		1,800	µg/Kg-dry	100	4/21/2011 09:55 PM
Vinyl chloride	ND	UJ	48	µg/Kg-dry	100	4/21/2011 09:55 PM
1,2-Dichloroethene, Total	ND		300	µg/Kg-dry	100	4/21/2011 09:55 PM
1,3-Dichloropropene, Total	ND		120	µg/Kg-dry	100	4/21/2011 09:55 PM
Xylenes, Total	ND		360	µg/Kg-dry	100	4/21/2011 09:55 PM
Surr: 1,2-Dichloroethane-d4	*98.0*		*70-120*	*%REC*	100	4/21/2011 09:55 PM
Surr: 4-Bromofluorobenzene	*99.6*		*75-120*	*%REC*	100	4/21/2011 09:55 PM
Surr: Dibromofluoromethane	*94.4*		*85-115*	*%REC*	100	4/21/2011 09:55 PM
Surr: Toluene-d8	*98.4*		*85-115*	*%REC*	100	4/21/2011 09:55 PM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**16**		**0.050**	**% of sample**	1	4/21/2011 11:52 AM

KM 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-MB-03
Collection Date: 4/20/2011

Work Order: 1104520
Lab ID: 1104520-07
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **BG**
1,1,1,2-Tetrachloroethane	ND		150	µg/Kg	100	4/21/2011 07:22 PM
1,1,1-Trichloroethane	ND		100	µg/Kg	100	4/21/2011 07:22 PM
1,1,2,2-Tetrachloroethane	ND		100	µg/Kg	100	4/21/2011 07:22 PM
1,1,2-Trichloroethane	ND		50	µg/Kg	100	4/21/2011 07:22 PM
1,1,2-Trichlorotrifluoroethane	ND		100	µg/Kg	100	4/21/2011 07:22 PM
1,1-Dichloroethane	ND		100	µg/Kg	100	4/21/2011 07:22 PM
1,1-Dichloroethene	ND		50	µg/Kg	100	4/21/2011 07:22 PM
1,1-Dichloropropene	ND		100	µg/Kg	100	4/21/2011 07:22 PM
1,2,3-Trichlorobenzene	ND		200	µg/Kg	100	4/21/2011 07:22 PM
1,2,3-Trichloropropane	ND		200	µg/Kg	100	4/21/2011 07:22 PM
1,2,4-Trichlorobenzene	ND		100	µg/Kg	100	4/21/2011 07:22 PM
1,2,4-Trimethylbenzene	ND		100	µg/Kg	100	4/21/2011 07:22 PM
1,2-Dibromo-3-chloropropane	ND		100	µg/Kg	100	4/21/2011 07:22 PM
1,2-Dibromoethane	ND		150	µg/Kg	100	4/21/2011 07:22 PM
1,2-Dichlorobenzene	ND		100	µg/Kg	100	4/21/2011 07:22 PM
1,2-Dichloroethane	ND		50	µg/Kg	100	4/21/2011 07:22 PM
1,2-Dichloropropane	ND		50	µg/Kg	100	4/21/2011 07:22 PM
1,3,5-Trimethylbenzene	ND		100	µg/Kg	100	4/21/2011 07:22 PM
1,3-Dichlorobenzene	ND		50	µg/Kg	100	4/21/2011 07:22 PM
1,3-Dichloropropane	ND		50	µg/Kg	100	4/21/2011 07:22 PM
1,4-Dichlorobenzene	ND		50	µg/Kg	100	4/21/2011 07:22 PM KH
2,2-Dichloropropane	ND	UJ	50	µg/Kg	100	4/21/2011 07:22 PM 5/2/11
2-Butanone	ND		750	µg/Kg	100	4/21/2011 07:22 PM
2-Chlorotoluene	ND		50	µg/Kg	100	4/21/2011 07:22 PM
2-Hexanone	ND		500	µg/Kg	100	4/21/2011 07:22 PM
2-Methylnaphthalene	ND		300	µg/Kg	100	4/21/2011 07:22 PM
4-Chlorotoluene	ND		200	µg/Kg	100	4/21/2011 07:22 PM
4-Methyl-2-pentanone	ND		500	µg/Kg	100	4/21/2011 07:22 PM
Acetone	ND		450	µg/Kg	100	4/21/2011 07:22 PM
Acrylonitrile	ND		100	µg/Kg	100	4/21/2011 07:22 PM
Benzene	ND		50	µg/Kg	100	4/21/2011 07:22 PM
Bromobenzene	ND		150	µg/Kg	100	4/21/2011 07:22 PM
Bromochloromethane	ND		150	µg/Kg	100	4/21/2011 07:22 PM
Bromodichloromethane	ND		150	µg/Kg	100	4/21/2011 07:22 PM
Bromoform	ND		100	µg/Kg	100	4/21/2011 07:22 PM
Carbon disulfide	ND		150	µg/Kg	100	4/21/2011 07:22 PM
Carbon tetrachloride	ND		100	µg/Kg	100	4/21/2011 07:22 PM KH
Chlorobenzene	ND		150	µg/Kg	100	4/21/2011 07:22 PM
Chloroethane	ND	UJ	300	µg/Kg	100	4/21/2011 07:22 PM 5/2/11

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-MB-03
Collection Date: 4/20/2011

Work Order: 1104520
Lab ID: 1104520-07
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	ND		100	µg/Kg	100	4/21/2011 07:22 PM
Chloromethane	ND	UJ	300	µg/Kg	100	4/21/2011 07:22 PM
cis-1,2-Dichloroethene	ND		200	µg/Kg	100	4/21/2011 07:22 PM
cis-1,3-Dichloropropene	ND		100	µg/Kg	100	4/21/2011 07:22 PM
Dibromochloromethane	ND		200	µg/Kg	100	4/21/2011 07:22 PM KH
Dibromomethane	ND		200	µg/Kg	100	4/21/2011 07:22 PM 5/2/11
Dichlorodifluoromethane	ND		100	µg/Kg	100	4/21/2011 07:22 PM
Diethyl ether	ND		100	µg/Kg	100	4/21/2011 07:22 PM
Diisopropyl ether	ND		500	µg/Kg	100	4/21/2011 07:22 PM
Ethyl tert butyl ether	ND		100	µg/Kg	100	4/21/2011 07:22 PM
Ethylbenzene	ND		200	µg/Kg	100	4/21/2011 07:22 PM
Heptane	ND		100	µg/Kg	100	4/21/2011 07:22 PM
Hexachlorobutadiene	ND		100	µg/Kg	100	4/21/2011 07:22 PM
Hexachloroethane	ND		100	µg/Kg	100	4/21/2011 07:22 PM
Hexane	ND		300	µg/Kg	100	4/21/2011 07:22 PM KH
Iodomethane	ND	UJ	250	µg/Kg	100	4/21/2011 07:22 PM 5/2/11
Isopropylbenzene	ND		100	µg/Kg	100	4/21/2011 07:22 PM
m,p-Xylene	ND		200	µg/Kg	100	4/21/2011 07:22 PM
Methyl tert-butyl ether	ND		150	µg/Kg	100	4/21/2011 07:22 PM
Methylene chloride	ND		100	µg/Kg	100	4/21/2011 07:22 PM
n-Butylbenzene	ND		50	µg/Kg	100	4/21/2011 07:22 PM
n-Propylbenzene	ND		200	µg/Kg	100	4/21/2011 07:22 PM
Naphthalene	ND		200	µg/Kg	100	4/21/2011 07:22 PM
o-Xylene	ND		100	µg/Kg	100	4/21/2011 07:22 PM
p-Isopropyltoluene	ND		100	µg/Kg	100	4/21/2011 07:22 PM
sec-Butylbenzene	ND		100	µg/Kg	100	4/21/2011 07:22 PM
Styrene	ND		150	µg/Kg	100	4/21/2011 07:22 PM
tert-Amyl methyl ether	ND		100	µg/Kg	100	4/21/2011 07:22 PM
tert-Butyl alcohol	ND		500	µg/Kg	100	4/21/2011 07:22 PM
tert-Butylbenzene	ND		150	µg/Kg	100	4/21/2011 07:22 PM
Tetrachloroethene	ND		50	µg/Kg	100	4/21/2011 07:22 PM
Tetrahydrofuran	ND		150	µg/Kg	100	4/21/2011 07:22 PM
Toluene	ND		150	µg/Kg	100	4/21/2011 07:22 PM
trans-1,2-Dichloroethene	ND		100	µg/Kg	100	4/21/2011 07:22 PM
trans-1,3-Dichloropropene	ND		150	µg/Kg	100	4/21/2011 07:22 PM
trans-1,4-Dichloro-2-butene	ND	UJ	350	µg/Kg	100	4/21/2011 07:22 PM KH
Trichloroethene	ND		50	µg/Kg	100	4/21/2011 07:22 PM 5/2/11
Trichlorofluoromethane	ND	UJ	100	µg/Kg	100	4/21/2011 07:22 PM
Vinyl acetate	ND		1,500	µg/Kg	100	4/21/2011 07:22 PM
Vinyl chloride	ND	UJ	40	µg/Kg	100	4/21/2011 07:22 PM

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

ALS Group USA, Corp

Date: *01-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-MB-03
Collection Date: 4/20/2011

Work Order: 1104520
Lab ID: 1104520-07
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethene, Total	ND		250	µg/Kg	100	4/21/2011 07:22 PM
1,3-Dichloropropene, Total	ND		100	µg/Kg	100	4/21/2011 07:22 PM
Xylenes, Total	ND		300	µg/Kg	100	4/21/2011 07:22 PM
Surr: 1,2-Dichloroethane-d4	*99.8*		*70-120*	*%REC*	100	4/21/2011 07:22 PM
Surr: 4-Bromofluorobenzene	*97.9*		*75-120*	*%REC*	100	4/21/2011 07:22 PM
Surr: Dibromofluoromethane	*95.1*		*85-115*	*%REC*	100	4/21/2011 07:22 PM
Surr: Toluene-d8	*97.8*		*85-115*	*%REC*	100	4/21/2011 07:22 PM

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

ALS Group USA, Corp

Date: 01-May-11

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **32940a** Instrument ID **GC4** Method: **SW8082**

MBLK Sample ID: **PBLKS1-32940-32940a** Units: **µg/Kg** Analysis Date: **4/22/2011 10:11 AM**

Client ID: Run ID: **GC4_110422A** SeqNo: **1607825** Prep Date: **4/21/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	40								
Aroclor 1221	ND	40								
Aroclor 1232	ND	40								
Aroclor 1242	ND	40								
Aroclor 1248	ND	40								
Aroclor 1254	ND	40								
Aroclor 1260	ND	40								
Aroclor 1262	ND	40								
Aroclor 1268	ND	40								
Surr: Decachlorobiphenyl	*27.33*	0	*33.3*	0	*82.1*	*50-130*	0			

LCS Sample ID: **PLCSS1-32940-32940a** Units: **µg/Kg** Analysis Date: **4/22/2011 10:11 AM**

Client ID: Run ID: **GC4_110422A** SeqNo: **1607827** Prep Date: **4/21/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	713	40	833	0	85.6	50-130	0			
Aroclor 1260	764	40	833	0	91.7	50-130	0			
Surr: Decachlorobiphenyl	*27.33*	0	*33.3*	0	*82.1*	*50-130*	0			

LCSD Sample ID: **PLCSDS1-32940-32940a** Units: **µg/Kg** Analysis Date: **4/22/2011 10:11 AM**

Client ID: Run ID: **GC4_110422A** SeqNo: **1607826** Prep Date: **4/21/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	646.7	40	833	0	77.6	50-130	713	9.76	25	
Aroclor 1260	691.3	40	833	0	83	50-130	764	9.99	25	
Surr: Decachlorobiphenyl	*25.33*	0	*33.3*	0	*76.1*	*50-130*	27.33	*7.59*	*25*	

The following samples were analyzed in this batch:

1104520-01B	1104520-02B	1104520-03B
1104520-04B	1104520-05B	1104520-06B

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **32952** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-32952-32952** Units: **mg/Kg** Analysis Date: **4/22/2011 12:33 PM**
Client ID: Run ID: **ICPMS1_110422A** SeqNo: **1607979** Prep Date: **4/21/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Lead	0.00781	0.25								J

LCS Sample ID: **LCS-32952-32952** Units: **mg/Kg** Analysis Date: **4/22/2011 12:39 PM**
Client ID: Run ID: **ICPMS1_110422A** SeqNo: **1607981** Prep Date: **4/21/2011** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.639	0.50	5	0	92.8	80-120	0			
Lead	4.784	0.50	5	0	95.7	80-120	0			

LCSD Sample ID: **LCSD-32952-32952** Units: **mg/Kg** Analysis Date: **4/22/2011 12:45 PM**
Client ID: Run ID: **ICPMS1_110422A** SeqNo: **1607982** Prep Date: **4/21/2011** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.755	0.50	5	0	95.1	80-120	4.639	2.47	20	
Lead	4.765	0.50	5	0	95.3	80-120	4.784	0.398	20	

MS Sample ID: **1104499-18BMS** Units: **mg/Kg** Analysis Date: **4/22/2011 02:04 PM**
Client ID: Run ID: **ICPMS1_110422A** SeqNo: **1607997** Prep Date: **4/21/2011** DF: **4**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.04	1.6	7.949	3.07	100	80-120	0			
Lead	37.23	1.6	7.949	30.75	81.6	80-120	0			

MSD Sample ID: **1104499-18BMSD** Units: **mg/Kg** Analysis Date: **4/22/2011 02:11 PM**
Client ID: Run ID: **ICPMS1_110422A** SeqNo: **1607998** Prep Date: **4/21/2011** DF: **4**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.43	1.6	7.843	3.07	93.8	80-120	11.04	5.67	25	
Lead	36.36	1.6	7.843	30.75	71.6	80-120	37.23	2.37	25	S

The following samples were analyzed in this batch:

1104520-01B	1104520-02B	1104520-03B
1104520-04B	1104520-05B	1104520-06B

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89261A** Instrument ID **VMS6** Method: **SW8260**

MBLK Sample ID: **VBLKW1-110421-R89261A** Units: **µg/L** Analysis Date: **4/21/2011 03:05 PM**

Client ID: Run ID: **VMS6_110421A** SeqNo: **1606842** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1,2-Trichlorotrifluoroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,1-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	3.0								
1,2,3-Trichloropropane	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	1.0								
1,2-Dibromoethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	2.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,3-Dichlorobenzene	ND	2.0								
1,3-Dichloropropane	ND	1.0								
1,4-Dichlorobenzene	ND	2.0								
2,2-Dichloropropane	ND	1.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	2.0								
2-Hexanone	ND	5.0								
2-Methylnaphthalene	ND	10								
4-Chlorotoluene	ND	1.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	20								
Acrylonitrile	ND	1.0								
Benzene	ND	1.0								
Bromobenzene	ND	1.0								
Bromochloromethane	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Carbon disulfide	ND	2.5								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89261A** Instrument ID **VMS6** Method: **SW8260**

cis-1,3-Dichloropropene	ND	1.0					
Dibromochloromethane	ND	1.0					
Dibromomethane	ND	1.0					
Dichlorodifluoromethane	ND	1.0					
Diethyl ether	ND	10					
Diisopropyl ether	ND	5.0					
Ethyl tert butyl ether	ND	5.0					
Ethylbenzene	ND	1.0					
Hexachlorobutadiene	ND	5.0					
Hexachloroethane	ND	1.0					
Hexane	ND	5.0					
Iodomethane	ND	5.0					
Isopropylbenzene	ND	1.0					
m,p-Xylene	ND	2.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
n-Butylbenzene	ND	1.0					
n-Propylbenzene	ND	1.0					
Naphthalene	ND	5.0					
o-Xylene	ND	1.0					
p-Isopropyltoluene	ND	2.0					
sec-Butylbenzene	ND	2.0					
Styrene	ND	1.0					
tert-Butyl alcohol	ND	50					
tert-Butylbenzene	ND	2.0					
Tetrachloroethene	ND	2.0					
Tetrahydrofuran	ND	10					
Toluene	ND	1.0					
trans-1,2-Dichloroethene	ND	1.0					
trans-1,3-Dichloropropene	ND	1.0					
trans-1,4-Dichloro-2-butene	ND	5.0					
Trichloroethene	ND	1.0					
Trichlorofluoromethane	ND	1.0					
Vinyl acetate	ND	1.0					
Vinyl chloride	ND	1.0					
1,2-Dichloroethene, Total	ND	2.0					
1,3-Dichloropropene, Total	ND	2.0					
Xylenes, Total	ND	2.0					
Surr: 1,2-Dichloroethane-d4	*98.6*	0	*100*	0	*98.6*	*70-120*	0
Surr: 4-Bromofluorobenzene	*98.05*	0	*100*	0	*98*	*75-120*	0
Surr: Dibromofluoromethane	*100.3*	0	*100*	0	*100*	*85-115*	0
Surr: Toluene-d8	*98.4*	0	*100*	0	*98.4*	*85-120*	0

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89261A** Instrument ID **VMS6** Method: **SW8260**

LCS Sample ID: **VLCSW1-110421-R89261A** Units: **µg/L** Analysis Date: **4/21/2011 01:47 PM**

Client ID: Run ID: **VMS6_110421A** SeqNo: **1606838** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.99	1.0	20	0	105	80-130	0			
1,1,1-Trichloroethane	21.43	1.0	20	0	107	65-130	0			
1,1,2,2-Tetrachloroethane	21.28	1.0	20	0	106	65-130	0			
1,1,2-Trichloroethane	21.69	1.0	20	0	108	75-125	0			
1,1-Dichloroethane	22.5	1.0	20	0	112	70-135	0			
1,1-Dichloroethene	23.78	1.0	20	0	119	70-130	0			
1,1-Dichloropropene	21.16	1.0	20	0	106	75-130	0			
1,2,3-Trichlorobenzene	20	3.0	20	0	100	55-140	0			
1,2,3-Trichloropropane	20.42	1.0	20	0	102	75-125	0			
1,2,4-Trichlorobenzene	21.38	1.0	20	0	107	65-135	0			
1,2,4-Trimethylbenzene	20.41	1.0	20	0	102	75-130	0			
1,2-Dibromo-3-chloropropane	20.27	1.0	20	0	101	50-130	0			
1,2-Dibromoethane	20.36	1.0	20	0	102	80-120	0			
1,2-Dichlorobenzene	22.57	1.0	20	0	113	70-120	0			
1,2-Dichloroethane	21.97	1.0	20	0	110	70-130	0			
1,2-Dichloropropane	21.35	2.0	20	0	107	75-125	0			
1,3,5-Trimethylbenzene	20.9	1.0	20	0	104	75-130	0			
1,3-Dichlorobenzene	22.47	2.0	20	0	112	75-125	0			
1,3-Dichloropropane	22.06	1.0	20	0	110	75-125	0			
1,4-Dichlorobenzene	21.68	2.0	20	0	108	75-125	0			
2,2-Dichloropropane	23.22	1.0	20	0	116	70-135	0			
2-Butanone	21.81	5.0	20	0	109	30-150	0			
2-Chlorotoluene	21.37	2.0	20	0	107	75-125	0			
2-Hexanone	17.78	5.0	20	0	88.9	55-130	0			
4-Chlorotoluene	21.66	1.0	20	0	108	75-135	0			
4-Methyl-2-pentanone	23.25	5.0	20	0	116	60-135	0			
Acetone	25.95	20	20	0	130	40-140	0			
Acrylonitrile	20.38	1.0	20	0	102	70-135	0			
Benzene	22.78	1.0	20	0	114	80-120	0			
Bromobenzene	21.65	1.0	20	0	108	75-125	0			
Bromochloromethane	23.67	1.0	20	0	118	65-130	0			
Bromodichloromethane	20.89	1.0	20	0	104	75-120	0			
Bromoform	22.42	1.0	20	0	112	70-130	0			
Carbon disulfide	26.65	2.5	20	0	133	35-165	0			
Carbon tetrachloride	20.87	1.0	20	0	104	65-140	0			
Chlorobenzene	21.97	1.0	20	0	110	80-120	0			
Chloroethane	18.88	1.0	20	0	94.4	60-135	0			
Chloroform	21.82	1.0	20	0	109	65-135	0			
Chloromethane	21.55	1.0	20	0	108	70-125	0			
cis-1,2-Dichloroethene	22.95	1.0	20	0	115	70-125	0			
cis-1,3-Dichloropropene	21.21	1.0	20	0	106	70-130	0			
Dibromochloromethane	22.85	1.0	20	0	114	60-135	0			

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89261A** Instrument ID **VMS6** Method: **SW8260**

Dibromomethane	20.35	1.0	20	0	102	75-125	0	
Dichlorodifluoromethane	15.1	1.0	20	0	75.5	30-155	0	
Ethylbenzene	22.4	1.0	20	0	112	75-125	0	
Hexachlorobutadiene	27.05	5.0	20	0	135	50-140	0	
Hexachloroethane	25.8	1.0	20	0	129	70-135	0	
Iodomethane	29.37	5.0	20	0	147	70-135	0	S
Isopropylbenzene	22.15	1.0	20	0	111	75-125	0	
m,p-Xylene	44.06	2.0	40	0	110	75-130	0	
Methyl tert-butyl ether	21.1	5.0	20	0	106	65-125	0	
Methylene chloride	22.26	5.0	20	0	111	55-140	0	
n-Butylbenzene	23.28	1.0	20	0	116	70-135	0	
n-Propylbenzene	21.7	1.0	20	0	108	70-130	0	
Naphthalene	19.95	5.0	20	0	99.8	55-140	0	
o-Xylene	22.31	1.0	20	0	112	80-120	0	
p-Isopropyltoluene	21.99	2.0	20	0	110	75-130	0	
sec-Butylbenzene	21.75	2.0	20	0	109	70-125	0	
Styrene	20.52	1.0	20	0	103	65-135	0	
tert-Butylbenzene	21.1	2.0	20	0	106	70-130	0	
Tetrachloroethene	21.01	2.0	20	0	105	45-150	0	
Tetrahydrofuran	23.52	10	20	0	118	70-135	0	
Toluene	20.87	1.0	20	0	104	75-120	0	
trans-1,2-Dichloroethene	24.2	1.0	20	0	121	60-140	0	
trans-1,3-Dichloropropene	22.82	1.0	20	0	114	55-140	0	
trans-1,4-Dichloro-2-butene	22.12	5.0	20	0	111	70-135	0	
Trichloroethene	23.02	1.0	20	0	115	70-125	0	
Trichlorofluoromethane	18.66	1.0	20	0	93.3	60-145	0	
Vinyl chloride	22.16	1.0	20	0	111	50-145	0	
Xylenes, Total	66.37	2.0	60	0	111	75-130	0	
Surr: 1,2-Dichloroethane-d4	*97.66*	0	*100*	0	*97.7*	*70-120*	0	
Surr: 4-Bromofluorobenzene	*99.95*	0	*100*	0	*100*	*75-120*	0	
Surr: Dibromofluoromethane	*100.4*	0	*100*	0	*100*	*85-115*	0	
Surr: Toluene-d8	*98.6*	0	*100*	0	*98.6*	*85-120*	0	

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89261A** Instrument ID **VMS6** Method: **SW8260**

LCSD Sample ID: **VLCSDW1-110421-R89261A** Units: **µg/L** Analysis Date: **4/21/2011 02:12 PM**

Client ID: Run ID: **VMS6_110421A** SeqNo: **1606840** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	21.41	1.0	20	0	107	80-130	20.99	1.98	30	
1,1,1-Trichloroethane	22.45	1.0	20	0	112	65-130	21.43	4.65	30	
1,1,2,2-Tetrachloroethane	22.93	1.0	20	0	115	65-130	21.28	7.46	30	
1,1,2-Trichloroethane	22.31	1.0	20	0	112	75-125	21.69	2.82	30	
1,1-Dichloroethane	23.97	1.0	20	0	120	70-135	22.5	6.33	30	
1,1-Dichloroethene	25.19	1.0	20	0	126	70-130	23.78	5.76	30	
1,1-Dichloropropene	22.9	1.0	20	0	114	75-130	21.16	7.9	30	
1,2,3-Trichlorobenzene	19.18	3.0	20	0	95.9	55-140	20	4.19	30	
1,2,3-Trichloropropane	22.03	1.0	20	0	110	75-125	20.42	7.59	30	
1,2,4-Trichlorobenzene	20.53	1.0	20	0	103	65-135	21.38	4.06	30	
1,2,4-Trimethylbenzene	20.78	1.0	20	0	104	75-130	20.41	1.8	30	
1,2-Dibromo-3-chloropropane	21.11	1.0	20	0	106	50-130	20.27	4.06	30	
1,2-Dibromoethane	21.24	1.0	20	0	106	80-120	20.36	4.23	30	
1,2-Dichlorobenzene	22.55	1.0	20	0	113	70-120	22.57	0.0887	30	
1,2-Dichloroethane	22.97	1.0	20	0	115	70-130	21.97	4.45	30	
1,2-Dichloropropane	22.1	2.0	20	0	110	75-125	21.35	3.45	30	
1,3,5-Trimethylbenzene	21.31	1.0	20	0	107	75-130	20.9	1.94	30	
1,3-Dichlorobenzene	22.33	2.0	20	0	112	75-125	22.47	0.625	30	
1,3-Dichloropropane	22.64	1.0	20	0	113	75-125	22.06	2.6	30	
1,4-Dichlorobenzene	21.63	2.0	20	0	108	75-125	21.68	0.231	30	
2,2-Dichloropropane	25.31	1.0	20	0	127	70-135	23.22	8.61	30	
2-Butanone	25.94	5.0	20	0	130	30-150	21.81	17.3	30	
2-Chlorotoluene	22.12	2.0	20	0	111	75-125	21.37	3.45	30	
2-Hexanone	19.55	5.0	20	0	97.8	55-130	17.78	9.48	30	
4-Chlorotoluene	22.13	1.0	20	0	111	75-135	21.66	2.15	30	
4-Methyl-2-pentanone	25.7	5.0	20	0	128	60-135	23.25	10	30	
Acetone	26.91	20	20	0	135	40-140	25.95	3.63	30	
Acrylonitrile	22.6	1.0	20	0	113	70-135	20.38	10.3	30	
Benzene	23.91	1.0	20	0	120	80-120	22.78	4.84	30	
Bromobenzene	22.06	1.0	20	0	110	75-125	21.65	1.88	30	
Bromochloromethane	24.4	1.0	20	0	122	65-130	23.67	3.04	30	
Bromodichloromethane	21.63	1.0	20	0	108	75-120	20.89	3.48	30	
Bromoform	23.67	1.0	20	0	118	70-130	22.42	5.42	30	
Carbon disulfide	27.92	2.5	20	0	140	35-165	26.65	4.65	30	
Carbon tetrachloride	22.14	1.0	20	0	111	65-140	20.87	5.91	30	
Chlorobenzene	22.84	1.0	20	0	114	80-120	21.97	3.88	30	
Chloroethane	19.97	1.0	20	0	99.8	60-135	18.88	5.61	30	
Chloroform	22.78	1.0	20	0	114	65-135	21.82	4.3	30	
Chloromethane	21.13	1.0	20	0	106	70-125	21.55	1.97	30	
cis-1,2-Dichloroethene	24.18	1.0	20	0	121	70-125	22.95	5.22	30	
cis-1,3-Dichloropropene	22.12	1.0	20	0	111	70-130	21.21	4.2	30	
Dibromochloromethane	23.42	1.0	20	0	117	60-135	22.85	2.46	30	

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89261A** Instrument ID **VMS6** Method: **SW8260**

Dibromomethane	21.24	1.0	20	0	106	75-125	20.35	4.28	30	
Dichlorodifluoromethane	16.58	1.0	20	0	82.9	30-155	15.1	9.34	30	
Ethylbenzene	23.36	1.0	20	0	117	75-125	22.4	4.2	30	
Hexachlorobutadiene	24.2	5.0	20	0	121	50-140	27.05	11.1	30	
Hexachloroethane	24.77	1.0	20	0	124	70-135	25.8	4.07	30	
Iodomethane	31.86	5.0	20	0	159	70-135	29.37	8.13	30	S
Isopropylbenzene	22.93	1.0	20	0	115	75-125	22.15	3.46	30	
m,p-Xylene	46.05	2.0	40	0	115	75-130	44.06	4.42	30	
Methyl tert-butyl ether	22.6	5.0	20	0	113	65-125	21.1	6.86	30	
Methylene chloride	23.64	5.0	20	0	118	55-140	22.26	6.01	30	
n-Butylbenzene	21.8	1.0	20	0	109	70-135	23.28	6.57	30	
n-Propylbenzene	22.22	1.0	20	0	111	70-130	21.7	2.37	30	
Naphthalene	19.3	5.0	20	0	96.5	55-140	19.95	3.31	30	
o-Xylene	23.02	1.0	20	0	115	80-120	22.31	3.13	30	
p-Isopropyltoluene	21.2	2.0	20	0	106	75-130	21.99	3.66	30	
sec-Butylbenzene	21.73	2.0	20	0	109	70-125	21.75	0.092	30	
Styrene	21.16	1.0	20	0	106	65-135	20.52	3.07	30	
tert-Butylbenzene	21.28	2.0	20	0	106	70-130	21.1	0.849	30	
Tetrachloroethene	21.92	2.0	20	0	110	45-150	21.01	4.24	30	
Tetrahydrofuran	26.91	10	20	0	135	70-135	23.52	13.4	30	
Toluene	21.91	1.0	20	0	110	75-120	20.87	4.86	30	
trans-1,2-Dichloroethene	25.13	1.0	20	0	126	60-140	24.2	3.77	30	
trans-1,3-Dichloropropene	23.74	1.0	20	0	119	55-140	22.82	3.95	30	
trans-1,4-Dichloro-2-butene	23.27	5.0	20	0	116	70-135	22.12	5.07	30	
Trichloroethene	23.97	1.0	20	0	120	70-125	23.02	4.04	30	
Trichlorofluoromethane	18.94	1.0	20	0	94.7	60-145	18.66	1.49	30	
Vinyl chloride	23.67	1.0	20	0	118	50-145	22.16	6.59	30	
Xylenes, Total	69.07	2.0	60	0	115	75-130	66.37	3.99	30	
Surr: 1,2-Dichloroethane-d4	*97.67*	0	*100*	0	*97.7*	*70-120*	97.66	*0.0102*	*30*	
Surr: 4-Bromofluorobenzene	*99.82*	0	*100*	0	*99.8*	*75-120*	99.95	*0.13*	*30*	
Surr: Dibromofluoromethane	*100.1*	0	*100*	0	*100*	*85-115*	100.4	*0.249*	*30*	
Surr: Toluene-d8	*98.7*	0	*100*	0	*98.7*	*85-120*	98.6	*0.101*	*30*	

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89261A** Instrument ID **VMS6** Method: **SW8260**

MS Sample ID: **1104497-01A MS** Units: **µg/Kg** Analysis Date: **4/21/2011 11:37 PM**

Client ID: Run ID: **VMS6_110421A** SeqNo: **1607203** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	2017	150	2000	0	101	75-125	0			
1,1,1-Trichloroethane	2096	100	2000	0	105	70-135	0			
1,1,2,2-Tetrachloroethane	2226	200	2000	0	111	55-130	0			
1,1,2-Trichloroethane	2202	200	2000	0	110	60-125	0			
1,1-Dichloroethane	2264	100	2000	0	113	75-125	0			
1,1-Dichloroethene	2214	100	2000	0	111	65-135	0			
1,1-Dichloropropene	2336	100	2000	0	117	70-135	0			
1,2,3-Trichlorobenzene	1579	200	2000	0	79	60-135	0			
1,2,3-Trichloropropane	2173	200	2000	0	109	65-130	0			
1,2,4-Trichlorobenzene	1776	100	2000	0	88.8	65-130	0			
1,2,4-Trimethylbenzene	2000	100	2000	0	100	65-135	0			
1,2-Dibromo-3-chloropropane	1907	200	2000	0	95.4	40-135	0			
1,2-Dibromoethane	2089	150	2000	0	104	70-125	0			
1,2-Dichlorobenzene	2126	100	2000	0	106	75-120	0			
1,2-Dichloroethane	2220	100	2000	0	111	70-135	0			
1,2-Dichloropropane	2143	350	2000	0	107	70-120	0			
1,3,5-Trimethylbenzene	2009	100	2000	0	100	65-135	0			
1,3-Dichlorobenzene	2079	100	2000	0	104	70-125	0			
1,3-Dichloropropane	2221	150	2000	0	111	75-125	0			
1,4-Dichlorobenzene	2019	100	2000	0	101	70-125	0			
2,2-Dichloropropane	2161	60	2000	0	108	65-135	0			
2-Butanone	2327	750	2000	0	116	30-160	0			
2-Chlorotoluene	2095	150	2000	0	105	70-130	0			
2-Hexanone	1932	500	2000	0	96.6	45-145	0			
4-Chlorotoluene	2125	200	2000	0	106	75-125	0			
4-Methyl-2-pentanone	2514	500	2000	0	126	45-145	0			
Acetone	1905	450	2000	0	95.2	20-160	0			
Acrylonitrile	2193	400	2000	0	110	70-135	0			
Benzene	2281	100	2000	0	114	75-125	0			
Bromobenzene	2134	150	2000	0	107	65-120	0			
Bromochloromethane	2239	150	2000	0	112	70-125	0			
Bromodichloromethane	2002	150	2000	0	100	70-130	0			
Bromoform	2166	100	2000	0	108	55-135	0			
Carbon disulfide	2255	150	2000	0	113	45-160	0			
Carbon tetrachloride	1982	100	2000	0	99.1	65-135	0			
Chlorobenzene	2172	150	2000	0	109	75-125	0			
Chloroethane	1810	300	2000	0	90.5	40-155	0			
Chloroform	2188	100	2000	0	109	70-125	0			
Chloromethane	1908	300	2000	0	95.4	50-130	0			
cis-1,2-Dichloroethene	2294	200	2000	0	115	65-125	0			
cis-1,3-Dichloropropene	2078	100	2000	0	104	70-125	0			
Dibromochloromethane	2182	200	2000	0	109	65-135	0			

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89261A** Instrument ID **VMS6** Method: **SW8260**

Dibromomethane	2061	200	2000	0	103	75-130	0
Dichlorodifluoromethane	1522	100	2000	0	76.1	35-135	0
Ethylbenzene	2201	200	2000	0	110	75-125	0
Hexachlorobutadiene	1887	100	2000	0	94.4	55-140	0
Hexachloroethane	2184	100	2000	0	109	70-135	0
Iodomethane	2528	250	2000	0	126	70-135	0
Isopropylbenzene	2139	100	2000	0	107	75-130	0
m,p-Xylene	4346	200	4000	0	109	80-125	0
Methyl tert-butyl ether	2210	150	2000	0	110	75-125	0
Methylene chloride	2196	200	2000	0	110	55-145	0
n-Butylbenzene	2003	50	2000	0	100	65-140	0
n-Propylbenzene	2084	200	2000	0	104	65-135	0
Naphthalene	1799	200	2000	0	90	40-140	0
o-Xylene	2203	100	2000	0	110	75-125	0
p-Isopropyltoluene	1961	950	2000	0	98	75-135	0
sec-Butylbenzene	2035	100	2000	0	102	65-130	0
Styrene	2011	150	2000	0	101	75-125	0
tert-Butylbenzene	2007	150	2000	0	100	65-130	0
Tetrachloroethene	2045	100	2000	0	102	64-140	0
Tetrahydrofuran	2500	150	2000	0	125	70-135	0
Toluene	2079	150	2000	0	104	70-125	0
trans-1,2-Dichloroethene	2340	100	2000	0	117	65-135	0
trans-1,3-Dichloropropene	2199	150	2000	0	110	65-125	0
trans-1,4-Dichloro-2-butene	2107	350	2000	0	105	70-135	0
Trichloroethene	2249	100	2000	0	112	75-125	0
Trichlorofluoromethane	1437	100	2000	0	71.8	25-185	0
Vinyl chloride	2110	200	2000	0	106	60-125	0
Xylenes, Total	6549	300	6000	0	109	75-125	0
Surr: 1,2-Dichloroethane-d4	*9719*	0	*10000*	0	*97.2*	*70-120*	0
Surr: 4-Bromofluorobenzene	*10220*	0	*10000*	0	*102*	*75-120*	0
Surr: Dibromofluoromethane	*9953*	0	*10000*	0	*99.5*	*85-115*	0
Surr: Toluene-d8	*9806*	0	*10000*	0	*98.1*	*85-115*	0

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89261A** Instrument ID **VMS6** Method: **SW8260**

MSD Sample ID: **1104497-01A MSD** Units: **µg/Kg** Analysis Date: **4/22/2011 12:03 PM**

Client ID: Run ID: **VMS6_110421A** SeqNo: **1607204** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1932	150	2000	0	96.6	75-125	2017	4.3	30	
1,1,1-Trichloroethane	1933	100	2000	0	96.6	70-135	2096	8.09	30	
1,1,2,2-Tetrachloroethane	2230	200	2000	0	112	55-130	2226	0.18	30	
1,1,2-Trichloroethane	2154	200	2000	0	108	60-125	2202	2.2	30	
1,1-Dichloroethane	2156	100	2000	0	108	75-125	2264	4.89	30	
1,1-Dichloroethene	2069	100	2000	0	103	65-135	2214	6.77	30	
1,1-Dichloropropene	2177	100	2000	0	109	70-135	2336	7.05	30	
1,2,3-Trichlorobenzene	1525	200	2000	0	76.2	60-135	1579	3.48	30	
1,2,3-Trichloropropane	2127	200	2000	0	106	65-130	2173	2.14	30	
1,2,4-Trichlorobenzene	1620	100	2000	0	81	65-130	1776	9.19	30	
1,2,4-Trimethylbenzene	1800	100	2000	0	90	65-135	2000	10.5	30	
1,2-Dibromo-3-chloropropane	2045	200	2000	0	102	40-135	1907	6.98	30	
1,2-Dibromoethane	2045	150	2000	0	102	70-125	2089	2.13	30	
1,2-Dichlorobenzene	2086	100	2000	0	104	75-120	2126	1.9	30	
1,2-Dichloroethane	2164	100	2000	0	108	70-135	2220	2.55	30	
1,2-Dichloropropane	2049	350	2000	0	102	70-120	2143	4.48	30	
1,3,5-Trimethylbenzene	1888	100	2000	0	94.4	65-135	2009	6.21	30	
1,3-Dichlorobenzene	2013	100	2000	0	101	70-125	2079	3.23	30	
1,3-Dichloropropane	2159	150	2000	0	108	75-125	2221	2.83	30	
1,4-Dichlorobenzene	1957	100	2000	0	97.8	70-125	2019	3.12	30	
2,2-Dichloropropane	1504	60	2000	0	75.2	65-135	2161	35.9	30	R
2-Butanone	2189	750	2000	0	109	30-160	2327	6.11	30	
2-Chlorotoluene	1966	150	2000	0	98.3	70-130	2095	6.35	30	
2-Hexanone	2005	500	2000	0	100	45-145	1932	3.71	30	
4-Chlorotoluene	1990	200	2000	0	99.5	75-125	2125	6.56	30	
4-Methyl-2-pentanone	2545	500	2000	0	127	45-145	2514	1.23	30	
Acetone	2177	450	2000	0	109	20-160	1905	13.3	30	
Acrylonitrile	2109	400	2000	0	105	70-135	2193	3.91	30	
Benzene	2158	100	2000	0	108	75-125	2281	5.54	30	
Bromobenzene	2029	150	2000	0	101	65-120	2134	5.04	30	
Bromochloromethane	1973	150	2000	0	98.6	70-125	2239	12.6	30	
Bromodichloromethane	1944	150	2000	0	97.2	70-130	2002	2.94	30	
Bromoform	2029	100	2000	0	101	55-135	2166	6.53	30	
Carbon disulfide	2012	150	2000	0	101	45-160	2255	11.4	30	
Carbon tetrachloride	1768	100	2000	0	88.4	65-135	1982	11.4	30	
Chlorobenzene	2062	150	2000	0	103	75-125	2172	5.2	30	
Chloroethane	1216	300	2000	0	60.8	40-155	1810	39.3	30	R
Chloroform	2070	100	2000	0	104	70-125	2188	5.54	30	
Chloromethane	724	300	2000	0	36.2	50-130	1908	90	30	SR
cis-1,2-Dichloroethene	2223	200	2000	0	111	65-125	2294	3.14	30	
cis-1,3-Dichloropropene	1858	100	2000	0	92.9	70-125	2078	11.2	30	
Dibromochloromethane	2072	200	2000	0	104	65-135	2182	5.17	30	

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89261A** Instrument ID **VMS6** Method: **SW8260**

Dibromomethane	1991	200	2000	0	99.6	75-130	2061	3.46	30	
Dichlorodifluoromethane	1289	100	2000	0	64.4	35-135	1522	16.6	30	
Ethylbenzene	2057	200	2000	0	103	75-125	2201	6.76	30	
Hexachlorobutadiene	1935	100	2000	0	96.8	55-140	1887	2.51	30	
Hexachloroethane	1844	100	2000	0	92.2	70-135	2184	16.9	30	
Iodomethane	2423	250	2000	0	121	70-135	2528	4.24	30	
Isopropylbenzene	1984	100	2000	0	99.2	75-130	2139	7.52	30	
m,p-Xylene	4078	200	4000	0	102	80-125	4346	6.36	30	
Methyl tert-butyl ether	2138	150	2000	0	107	75-125	2210	3.31	30	
Methylene chloride	1795	200	2000	0	89.8	55-145	2196	20.1	30	
n-Butylbenzene	1747	50	2000	0	87.4	65-140	2003	13.7	30	
n-Propylbenzene	1929	200	2000	0	96.4	65-135	2084	7.72	30	
Naphthalene	1579	200	2000	0	79	40-140	1799	13	30	
o-Xylene	2084	100	2000	0	104	75-125	2203	5.55	30	
p-Isopropyltoluene	1822	950	2000	0	91.1	75-135	1961	7.35	30	
sec-Butylbenzene	1861	100	2000	0	93	65-130	2035	8.93	30	
Styrene	1892	150	2000	0	94.6	75-125	2011	6.1	30	
tert-Butylbenzene	1851	150	2000	0	92.6	65-130	2007	8.09	30	
Tetrachloroethene	1955	100	2000	0	97.8	64-140	2045	4.5	30	
Tetrahydrofuran	2506	150	2000	0	125	70-135	2500	0.24	30	
Toluene	1976	150	2000	0	98.8	70-125	2079	5.08	30	
trans-1,2-Dichloroethene	2176	100	2000	0	109	65-135	2340	7.26	30	
trans-1,3-Dichloropropene	1782	150	2000	0	89.1	65-125	2199	20.9	30	
trans-1,4-Dichloro-2-butene	1110	350	2000	0	55.5	70-135	2107	62	30	SR
Trichloroethene	2171	100	2000	0	109	75-125	2249	3.53	30	
Trichlorofluoromethane	1050	100	2000	0	52.5	25-185	1437	31.1	30	R
Vinyl chloride	1414	200	2000	0	70.7	60-125	2110	39.5	30	R
Xylenes, Total	6162	300	6000	0	103	75-125	6549	6.09	30	
Surr: 1,2-Dichloroethane-d4	*9638*	0	*10000*	0	*96.4*	*70-120*	9719	*0.837*	*30*	
Surr: 4-Bromofluorobenzene	*9996*	0	*10000*	0	*100*	*75-120*	10220	*2.18*	*30*	
Surr: Dibromofluoromethane	*9895*	0	*10000*	0	*99*	*85-115*	9953	*0.584*	*30*	
Surr: Toluene-d8	*9732*	0	*10000*	0	*97.3*	*85-115*	9806	*0.757*	*30*	

The following samples were analyzed in this batch:

1104520-01A	1104520-02A	1104520-03A
1104520-04A	1104520-05A	1104520-06A
1104520-07A		

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89325A** Instrument ID **VMS6** Method: **SW8260**

MBLK Sample ID: **VBLKW2-110422-R89325A** Units: **µg/L** Analysis Date: **4/23/2011 12:02 PM**

Client ID: Run ID: **VMS6_110422A** SeqNo: **1608306** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1,2-Trichlorotrifluoroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,1-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	3.0								
1,2,3-Trichloropropane	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	1.0								
1,2-Dibromoethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	2.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,3-Dichlorobenzene	ND	2.0								
1,3-Dichloropropane	ND	1.0								
1,4-Dichlorobenzene	ND	2.0								
2,2-Dichloropropane	ND	1.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	2.0								
2-Hexanone	ND	5.0								
2-Methylnaphthalene	ND	10								
4-Chlorotoluene	ND	1.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	20								
Acrylonitrile	ND	1.0								
Benzene	ND	1.0								
Bromobenzene	ND	1.0								
Bromochloromethane	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Carbon disulfide	ND	2.5								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	1.31	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89325A** Instrument ID **VMS6** Method: **SW8260**

cis-1,3-Dichloropropene	ND	1.0					
Dibromochloromethane	ND	1.0					
Dibromomethane	ND	1.0					
Dichlorodifluoromethane	ND	1.0					
Diethyl ether	ND	10					
Diisopropyl ether	ND	5.0					
Ethyl tert butyl ether	ND	5.0					
Ethylbenzene	ND	1.0					
Hexachlorobutadiene	ND	5.0					
Hexachloroethane	ND	1.0					
Hexane	ND	5.0					
Iodomethane	ND	5.0					
Isopropylbenzene	ND	1.0					
m,p-Xylene	ND	2.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
n-Butylbenzene	ND	1.0					
n-Propylbenzene	ND	1.0					
Naphthalene	ND	5.0					
o-Xylene	ND	1.0					
p-Isopropyltoluene	ND	2.0					
sec-Butylbenzene	ND	2.0					
Styrene	ND	1.0					
tert-Butyl alcohol	ND	50					
tert-Butylbenzene	ND	2.0					
Tetrachloroethene	ND	2.0					
Tetrahydrofuran	ND	10					
Toluene	ND	1.0					
trans-1,2-Dichloroethene	ND	1.0					
trans-1,3-Dichloropropene	ND	1.0					
trans-1,4-Dichloro-2-butene	ND	5.0					
Trichloroethene	ND	1.0					
Trichlorofluoromethane	ND	1.0					
Vinyl acetate	ND	1.0					
Vinyl chloride	ND	1.0					
1,2-Dichloroethene, Total	ND	2.0					
1,3-Dichloropropene, Total	ND	2.0					
Xylenes, Total	ND	2.0					
Surr: 1,2-Dichloroethane-d4	*102.9*	0	*100*	0	*103*	*70-120*	0
Surr: 4-Bromofluorobenzene	*99.47*	0	*100*	0	*99.5*	*75-120*	0
Surr: Dibromofluoromethane	*102.8*	0	*100*	0	*103*	*85-115*	0
Surr: Toluene-d8	*100.6*	0	*100*	0	*101*	*85-120*	0

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89325A** Instrument ID **VMS6** Method: **SW8260**

LCS Sample ID: **VLCSW1-110422-R89325A** Units: **µg/L** Analysis Date: **4/22/2011 10:45 PM**

Client ID: Run ID: **VMS6_110422A** SeqNo: **1608304** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	21.14	1.0	20	0	106	80-130	0			
1,1,1-Trichloroethane	21.79	1.0	20	0	109	65-130	0			
1,1,2,2-Tetrachloroethane	23.26	1.0	20	0	116	65-130	0			
1,1,2-Trichloroethane	22.9	1.0	20	0	114	75-125	0			
1,1-Dichloroethane	21.41	1.0	20	0	107	70-135	0			
1,1-Dichloroethene	22.52	1.0	20	0	113	70-130	0			
1,1-Dichloropropene	22.08	1.0	20	0	110	75-130	0			
1,2,3-Trichlorobenzene	22.43	3.0	20	0	112	55-140	0			
1,2,3-Trichloropropane	24.71	1.0	20	0	124	75-125	0			
1,2,4-Trichlorobenzene	21.36	1.0	20	0	107	65-135	0			
1,2,4-Trimethylbenzene	21.61	1.0	20	0	108	75-130	0			
1,2-Dibromo-3-chloropropane	23.74	1.0	20	0	119	50-130	0			
1,2-Dibromoethane	21.84	1.0	20	0	109	80-120	0			
1,2-Dichlorobenzene	23.24	1.0	20	0	116	70-120	0			
1,2-Dichloroethane	22.65	1.0	20	0	113	70-130	0			
1,2-Dichloropropane	21.78	2.0	20	0	109	75-125	0			
1,3,5-Trimethylbenzene	21.95	1.0	20	0	110	75-130	0			
1,3-Dichlorobenzene	23.17	2.0	20	0	116	75-125	0			
1,3-Dichloropropane	21.93	1.0	20	0	110	75-125	0			
1,4-Dichlorobenzene	22.21	2.0	20	0	111	75-125	0			
2,2-Dichloropropane	19.96	1.0	20	0	99.8	70-135	0			
2-Butanone	18	5.0	20	0	90	30-150	0			
2-Chlorotoluene	23.56	2.0	20	0	118	75-125	0			
2-Hexanone	23.24	5.0	20	0	116	55-130	0			
4-Chlorotoluene	23.8	1.0	20	0	119	75-135	0			
4-Methyl-2-pentanone	29.64	5.0	20	0	148	60-135	0			S
Acetone	27.77	20	20	0	139	40-140	0			
Acrylonitrile	21.91	1.0	20	0	110	70-135	0			
Benzene	23.56	1.0	20	0	118	80-120	0			
Bromobenzene	23.5	1.0	20	0	118	75-125	0			
Bromochloromethane	23.02	1.0	20	0	115	65-130	0			
Bromodichloromethane	20.64	1.0	20	0	103	75-120	0			
Bromoform	21.88	1.0	20	0	109	70-130	0			
Carbon disulfide	22.65	2.5	20	0	113	35-165	0			
Carbon tetrachloride	20.63	1.0	20	0	103	65-140	0			
Chlorobenzene	22.04	1.0	20	0	110	80-120	0			
Chloroethane	23.16	1.0	20	0	116	60-135	0			
Chloroform	22.35	1.0	20	0	112	65-135	0			B
Chloromethane	19.47	1.0	20	0	97.4	70-125	0			
cis-1,2-Dichloroethene	23.57	1.0	20	0	118	70-125	0			
cis-1,3-Dichloropropene	20.72	1.0	20	0	104	70-130	0			
Dibromochloromethane	20.36	1.0	20	0	102	60-135	0			

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89325A** Instrument ID **VMS6** Method: **SW8260**

Dibromomethane	21.29	1.0	20	0	106	75-125	0
Dichlorodifluoromethane	17.21	1.0	20	0	86	30-155	0
Ethylbenzene	23.69	1.0	20	0	118	75-125	0
Hexachlorobutadiene	24.37	5.0	20	0	122	50-140	0
Hexachloroethane	20.89	1.0	20	0	104	70-135	0
Iodomethane	25.48	5.0	20	0	127	70-135	0
Isopropylbenzene	22.17	1.0	20	0	111	75-125	0
m,p-Xylene	47.39	2.0	40	0	118	75-130	0
Methyl tert-butyl ether	22.12	5.0	20	0	111	65-125	0
Methylene chloride	21.31	5.0	20	0	107	55-140	0
n-Butylbenzene	21.1	1.0	20	0	106	70-135	0
n-Propylbenzene	21.94	1.0	20	0	110	70-130	0
Naphthalene	22.03	5.0	20	0	110	55-140	0
o-Xylene	23.52	1.0	20	0	118	80-120	0
p-Isopropyltoluene	20.54	2.0	20	0	103	75-130	0
sec-Butylbenzene	21.94	2.0	20	0	110	70-125	0
Styrene	21.47	1.0	20	0	107	65-135	0
tert-Butylbenzene	21.82	2.0	20	0	109	70-130	0
Tetrachloroethene	22.39	2.0	20	0	112	45-150	0
Tetrahydrofuran	24.14	10	20	0	121	70-135	0
Toluene	22.22	1.0	20	0	111	75-120	0
trans-1,2-Dichloroethene	22.39	1.0	20	0	112	60-140	0
trans-1,3-Dichloropropene	20.19	1.0	20	0	101	55-140	0
trans-1,4-Dichloro-2-butene	22.73	5.0	20	0	114	70-135	0
Trichloroethene	23.64	1.0	20	0	118	70-125	0
Trichlorofluoromethane	16.15	1.0	20	0	80.8	60-145	0
Vinyl chloride	22.95	1.0	20	0	115	50-145	0
Xylenes, Total	70.91	2.0	60	0	118	75-130	0
Surr: 1,2-Dichloroethane-d4	*100.9*	0	*100*	0	*101*	*70-120*	0
Surr: 4-Bromofluorobenzene	*101.2*	0	*100*	0	*101*	*75-120*	0
Surr: Dibromofluoromethane	*102.7*	0	*100*	0	*103*	*85-115*	0
Surr: Toluene-d8	*100.4*	0	*100*	0	*100*	*85-120*	0

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89325A** Instrument ID **VMS6** Method: **SW8260**

LCSD Sample ID: **VLCSDW1-110422-R89325A** Units: **µg/L** Analysis Date: **4/22/2011 11:11 PM**

Client ID: Run ID: **VMS6_110422A** SeqNo: **1608305** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.76	1.0	20	0	104	80-130	21.14	1.81	30	
1,1,1-Trichloroethane	21	1.0	20	0	105	65-130	21.79	3.69	30	
1,1,2,2-Tetrachloroethane	22.83	1.0	20	0	114	65-130	23.26	1.87	30	
1,1,2-Trichloroethane	22.11	1.0	20	0	111	75-125	22.9	3.51	30	
1,1-Dichloroethane	20.58	1.0	20	0	103	70-135	21.41	3.95	30	
1,1-Dichloroethene	21.09	1.0	20	0	105	70-130	22.52	6.56	30	
1,1-Dichloropropene	20.9	1.0	20	0	104	75-130	22.08	5.49	30	
1,2,3-Trichlorobenzene	21.27	3.0	20	0	106	55-140	22.43	5.31	30	
1,2,3-Trichloropropane	23.89	1.0	20	0	119	75-125	24.71	3.37	30	
1,2,4-Trichlorobenzene	20.11	1.0	20	0	101	65-135	21.36	6.03	30	
1,2,4-Trimethylbenzene	20.95	1.0	20	0	105	75-130	21.61	3.1	30	
1,2-Dibromo-3-chloropropane	23.19	1.0	20	0	116	50-130	23.74	2.34	30	
1,2-Dibromoethane	21.58	1.0	20	0	108	80-120	21.84	1.2	30	
1,2-Dichlorobenzene	22.64	1.0	20	0	113	70-120	23.24	2.62	30	
1,2-Dichloroethane	22.62	1.0	20	0	113	70-130	22.65	0.133	30	
1,2-Dichloropropane	20.77	2.0	20	0	104	75-125	21.78	4.75	30	
1,3,5-Trimethylbenzene	21.32	1.0	20	0	107	75-130	21.95	2.91	30	
1,3-Dichlorobenzene	22.62	2.0	20	0	113	75-125	23.17	2.4	30	
1,3-Dichloropropane	21.29	1.0	20	0	106	75-125	21.93	2.96	30	
1,4-Dichlorobenzene	21.8	2.0	20	0	109	75-125	22.21	1.86	30	
2,2-Dichloropropane	19.21	1.0	20	0	96	70-135	19.96	3.83	30	
2-Butanone	16.53	5.0	20	0	82.6	30-150	18	8.51	30	
2-Chlorotoluene	22.83	2.0	20	0	114	75-125	23.56	3.15	30	
2-Hexanone	22.52	5.0	20	0	113	55-130	23.24	3.15	30	
4-Chlorotoluene	23.05	1.0	20	0	115	75-135	23.8	3.2	30	
4-Methyl-2-pentanone	29.44	5.0	20	0	147	60-135	29.64	0.677	30	S
Acetone	26.7	20	20	0	134	40-140	27.77	3.93	30	
Acrylonitrile	21.54	1.0	20	0	108	70-135	21.91	1.7	30	
Benzene	22.64	1.0	20	0	113	80-120	23.56	3.98	30	
Bromobenzene	22.85	1.0	20	0	114	75-125	23.5	2.8	30	
Bromochloromethane	22.7	1.0	20	0	114	65-130	23.02	1.4	30	
Bromodichloromethane	20.06	1.0	20	0	100	75-120	20.64	2.85	30	
Bromoform	21.67	1.0	20	0	108	70-130	21.88	0.964	30	
Carbon disulfide	21.66	2.5	20	0	108	35-165	22.65	4.47	30	
Carbon tetrachloride	19.86	1.0	20	0	99.3	65-140	20.63	3.8	30	
Chlorobenzene	21.39	1.0	20	0	107	80-120	22.04	2.99	30	
Chloroethane	21.98	1.0	20	0	110	60-135	23.16	5.23	30	
Chloroform	21.79	1.0	20	0	109	65-135	22.35	2.54	30	B
Chloromethane	18.88	1.0	20	0	94.4	70-125	19.47	3.08	30	
cis-1,2-Dichloroethene	21.89	1.0	20	0	109	70-125	23.57	7.39	30	
cis-1,3-Dichloropropene	20.53	1.0	20	0	103	70-130	20.72	0.921	30	
Dibromochloromethane	19.82	1.0	20	0	99.1	60-135	20.36	2.69	30	

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89325A** Instrument ID **VMS6** Method: **SW8260**

Dibromomethane	20.53	1.0	20	0	103	75-125	21.29	3.63	30
Dichlorodifluoromethane	17.29	1.0	20	0	86.4	30-155	17.21	0.464	30
Ethylbenzene	22.82	1.0	20	0	114	75-125	23.69	3.74	30
Hexachlorobutadiene	22.43	5.0	20	0	112	50-140	24.37	8.29	30
Hexachloroethane	20.15	1.0	20	0	101	70-135	20.89	3.61	30
Iodomethane	24.15	5.0	20	0	121	70-135	25.48	5.36	30
Isopropylbenzene	21.42	1.0	20	0	107	75-125	22.17	3.44	30
m,p-Xylene	45.72	2.0	40	0	114	75-130	47.39	3.59	30
Methyl tert-butyl ether	21.94	5.0	20	0	110	65-125	22.12	0.817	30
Methylene chloride	20.81	5.0	20	0	104	55-140	21.31	2.37	30
n-Butylbenzene	20.25	1.0	20	0	101	70-135	21.1	4.11	30
n-Propylbenzene	21.15	1.0	20	0	106	70-130	21.94	3.67	30
Naphthalene	20.64	5.0	20	0	103	55-140	22.03	6.52	30
o-Xylene	22.79	1.0	20	0	114	80-120	23.52	3.15	30
p-Isopropyltoluene	19.9	2.0	20	0	99.5	75-130	20.54	3.17	30
sec-Butylbenzene	21.05	2.0	20	0	105	70-125	21.94	4.14	30
Styrene	20.81	1.0	20	0	104	65-135	21.47	3.12	30
tert-Butylbenzene	21.13	2.0	20	0	106	70-130	21.82	3.21	30
Tetrachloroethene	21.69	2.0	20	0	108	45-150	22.39	3.18	30
Tetrahydrofuran	23.85	10	20	0	119	70-135	24.14	1.21	30
Toluene	21.77	1.0	20	0	109	75-120	22.22	2.05	30
trans-1,2-Dichloroethene	21.83	1.0	20	0	109	60-140	22.39	2.53	30
trans-1,3-Dichloropropene	19.68	1.0	20	0	98.4	55-140	20.19	2.56	30
trans-1,4-Dichloro-2-butene	22.39	5.0	20	0	112	70-135	22.73	1.51	30
Trichloroethene	22.98	1.0	20	0	115	70-125	23.64	2.83	30
Trichlorofluoromethane	15.54	1.0	20	0	77.7	60-145	16.15	3.85	30
Vinyl chloride	22.4	1.0	20	0	112	50-145	22.95	2.43	30
Xylenes, Total	68.51	2.0	60	0	114	75-130	70.91	3.44	30
Surr: 1,2-Dichloroethane-d4	*100.3*	0	*100*	0	*100*	*70-120*	100.9	*0.586*	*30*
Surr: 4-Bromofluorobenzene	*100.3*	0	*100*	0	*100*	*75-120*	101.2	*0.884*	*30*
Surr: Dibromofluoromethane	*100.9*	0	*100*	0	*101*	*85-115*	102.7	*1.78*	*30*
Surr: Toluene-d8	*100.4*	0	*100*	0	*100*	*85-120*	100.4	*0.0896*	*30*

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89325A** Instrument ID **VMS6** Method: **SW8260**

MS Sample ID: **1104519-10B MS** Units: **µg/Kg** Analysis Date: **4/23/2011 08:12 AM**

Client ID: Run ID: **VMS6_110422A** SeqNo: **1608363** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	2008	150	2000	0	100	75-125	0			
1,1,1-Trichloroethane	2047	100	2000	0	102	70-135	0			
1,1,2,2-Tetrachloroethane	2219	200	2000	0	111	55-130	0			
1,1,2-Trichloroethane	2201	200	2000	0	110	60-125	0			
1,1-Dichloroethane	2075	100	2000	0	104	75-125	0			
1,1-Dichloroethene	1966	100	2000	0	98.3	65-135	0			
1,1-Dichloropropene	2392	100	2000	0	120	70-135	0			
1,2,3-Trichlorobenzene	1764	200	2000	0	88.2	60-135	0			
1,2,3-Trichloropropane	2375	200	2000	0	119	65-130	0			
1,2,4-Trichlorobenzene	1798	100	2000	0	89.9	65-130	0			
1,2,4-Trimethylbenzene	2066	100	2000	0	103	65-135	0			
1,2-Dibromo-3-chloropropane	2037	200	2000	0	102	40-135	0			
1,2-Dibromoethane	2133	150	2000	0	107	70-125	0			
1,2-Dichlorobenzene	2167	100	2000	0	108	75-120	0			
1,2-Dichloroethane	2210	100	2000	0	110	70-135	0			
1,2-Dichloropropane	2067	350	2000	0	103	70-120	0			
1,3,5-Trimethylbenzene	2085	100	2000	0	104	65-135	0			
1,3-Dichlorobenzene	2147	100	2000	0	107	70-125	0			
1,3-Dichloropropane	2107	150	2000	0	105	75-125	0			
1,4-Dichlorobenzene	2062	100	2000	0	103	70-125	0			
2,2-Dichloropropane	1621	60	2000	0	81	65-135	0			
2-Butanone	1897	750	2000	0	94.8	30-160	0			
2-Chlorotoluene	2211	150	2000	0	111	70-130	0			
2-Hexanone	2252	500	2000	0	113	45-145	0			
4-Chlorotoluene	2238	200	2000	0	112	75-125	0			
4-Methyl-2-pentanone	2913	500	2000	0	146	45-145	0			S
Acetone	2447	450	2000	0	122	20-160	0			
Acrylonitrile	2218	400	2000	0	111	70-135	0			
Benzene	2259	100	2000	0	113	75-125	0			
Bromobenzene	2244	150	2000	0	112	65-120	0			
Bromochloromethane	2117	150	2000	0	106	70-125	0			
Bromodichloromethane	1890	150	2000	0	94.5	70-130	0			
Bromoform	1970	100	2000	0	98.5	55-135	0			
Carbon disulfide	1897	150	2000	0	94.8	45-160	0			
Carbon tetrachloride	1952	100	2000	0	97.6	65-135	0			
Chlorobenzene	2107	150	2000	0	105	75-125	0			
Chloroethane	2044	300	2000	0	102	40-155	0			
Chloroform	2144	100	2000	0	107	70-125	0			B
Chloromethane	1579	300	2000	0	79	50-130	0			
cis-1,2-Dichloroethene	2296	200	2000	0	115	65-125	0			
cis-1,3-Dichloropropene	1939	100	2000	0	97	70-125	0			
Dibromochloromethane	1841	200	2000	0	92	65-135	0			

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89325A** Instrument ID **VMS6** Method: **SW8260**

Dibromomethane	2036	200	2000	0	102	75-130	0	
Dichlorodifluoromethane	1820	100	2000	0	91	35-135	0	
Ethylbenzene	2246	200	2000	0	112	75-125	0	
Hexachlorobutadiene	1951	100	2000	0	97.6	55-140	0	
Hexachloroethane	1834	100	2000	0	91.7	70-135	0	
Iodomethane	1622	250	2000	0	81.1	70-135	0	
Isopropylbenzene	2112	100	2000	0	106	75-130	0	
m,p-Xylene	4461	200	4000	0	112	80-125	0	
Methyl tert-butyl ether	2506	150	2000	0	125	75-125	0	S
Methylene chloride	2091	200	2000	0	105	55-145	0	
n-Butylbenzene	1904	50	2000	0	95.2	65-140	0	
n-Propylbenzene	2072	200	2000	0	104	65-135	0	
Naphthalene	1874	200	2000	0	93.7	40-140	0	
o-Xylene	2250	100	2000	0	112	75-125	0	
p-Isopropyltoluene	1875	950	2000	0	93.8	75-135	0	
sec-Butylbenzene	2084	100	2000	0	104	65-130	0	
Styrene	2055	150	2000	0	103	75-125	0	
tert-Butylbenzene	2086	150	2000	0	104	65-130	0	
Tetrachloroethene	2104	100	2000	0	105	64-140	0	
Tetrahydrofuran	2454	150	2000	0	123	70-135	0	
Toluene	2145	150	2000	0	107	70-125	0	
trans-1,2-Dichloroethene	2138	100	2000	0	107	65-135	0	
trans-1,3-Dichloropropene	1849	150	2000	0	92.4	65-125	0	
trans-1,4-Dichloro-2-butene	2104	350	2000	0	105	70-135	0	
Trichloroethene	2255	100	2000	0	113	75-125	0	
Trichlorofluoromethane	1374	100	2000	0	68.7	25-185	0	
Vinyl chloride	2214	200	2000	0	111	60-125	0	
Xylenes, Total	6711	300	6000	0	112	75-125	0	
Surr: 1,2-Dichloroethane-d4	*9831*	0	*10000*	0	*98.3*	*70-120*	0	
Surr: 4-Bromofluorobenzene	*10180*	0	*10000*	0	*102*	*75-120*	0	
Surr: Dibromofluoromethane	*9988*	0	*10000*	0	*99.9*	*85-115*	0	
Surr: Toluene-d8	*9902*	0	*10000*	0	*99*	*85-115*	0	

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89325A** Instrument ID **VMS6** Method: **SW8260**

MSD Sample ID: **1104519-10B MSD** Units: **µg/Kg** Analysis Date: **4/23/2011 08:38 AM**

Client ID: Run ID: **VMS6_110422A** SeqNo: **1608364** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1967	150	2000	0	98.4	75-125	2008	2.06	30	
1,1,1-Trichloroethane	1939	100	2000	0	97	70-135	2047	5.42	30	
1,1,2,2-Tetrachloroethane	2182	200	2000	0	109	55-130	2219	1.68	30	
1,1,2-Trichloroethane	2151	200	2000	0	108	60-125	2201	2.3	30	
1,1-Dichloroethane	2026	100	2000	0	101	75-125	2075	2.39	30	
1,1-Dichloroethene	1878	100	2000	0	93.9	65-135	1966	4.58	30	
1,1-Dichloropropene	2048	100	2000	0	102	70-135	2392	15.5	30	
1,2,3-Trichlorobenzene	1851	200	2000	0	92.6	60-135	1764	4.81	30	
1,2,3-Trichloropropane	2309	200	2000	0	115	65-130	2375	2.82	30	
1,2,4-Trichlorobenzene	1872	100	2000	0	93.6	65-130	1798	4.03	30	
1,2,4-Trimethylbenzene	2002	100	2000	0	100	65-135	2066	3.15	30	
1,2-Dibromo-3-chloropropane	2032	200	2000	0	102	40-135	2037	0.246	30	
1,2-Dibromoethane	2052	150	2000	0	103	70-125	2133	3.87	30	
1,2-Dichlorobenzene	2160	100	2000	0	108	75-120	2167	0.324	30	
1,2-Dichloroethane	2190	100	2000	0	110	70-135	2210	0.909	30	
1,2-Dichloropropane	2048	350	2000	0	102	70-120	2067	0.923	30	
1,3,5-Trimethylbenzene	2007	100	2000	0	100	65-135	2085	3.81	30	
1,3-Dichlorobenzene	2142	100	2000	0	107	70-125	2147	0.233	30	
1,3-Dichloropropane	2080	150	2000	0	104	75-125	2107	1.29	30	
1,4-Dichlorobenzene	2060	100	2000	0	103	70-125	2062	0.097	30	
2,2-Dichloropropane	1509	60	2000	0	75.4	65-135	1621	7.16	30	
2-Butanone	1650	750	2000	0	82.5	30-160	1897	13.9	30	
2-Chlorotoluene	2153	150	2000	0	108	70-130	2211	2.66	30	
2-Hexanone	2221	500	2000	0	111	45-145	2252	1.39	30	
4-Chlorotoluene	2177	200	2000	0	109	75-125	2238	2.76	30	
4-Methyl-2-pentanone	2848	500	2000	0	142	45-145	2913	2.26	30	
Acetone	2529	450	2000	0	126	20-160	2447	3.3	30	
Acrylonitrile	2151	400	2000	0	108	70-135	2218	3.07	30	
Benzene	2208	100	2000	0	110	75-125	2259	2.28	30	
Bromobenzene	2189	150	2000	0	109	65-120	2244	2.48	30	
Bromochloromethane	2135	150	2000	0	107	70-125	2117	0.847	30	
Bromodichloromethane	1907	150	2000	0	95.4	70-130	1890	0.895	30	
Bromoform	1957	100	2000	0	97.8	55-135	1970	0.662	30	
Carbon disulfide	1843	150	2000	0	92.2	45-160	1897	2.89	30	
Carbon tetrachloride	1849	100	2000	0	92.4	65-135	1952	5.42	30	
Chlorobenzene	2064	150	2000	0	103	75-125	2107	2.06	30	
Chloroethane	1982	300	2000	0	99.1	40-155	2044	3.08	30	
Chloroform	2065	100	2000	0	103	70-125	2144	3.75	30	B
Chloromethane	1812	300	2000	0	90.6	50-130	1579	13.7	30	
cis-1,2-Dichloroethene	2196	200	2000	0	110	65-125	2296	4.45	30	
cis-1,3-Dichloropropene	1941	100	2000	0	97	70-125	1939	0.103	30	
Dibromochloromethane	1842	200	2000	0	92.1	65-135	1841	0.0543	30	

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89325A** Instrument ID **VMS6** Method: **SW8260**

Dibromomethane	2033	200	2000	0	102	75-130	2036	0.147	30
Dichlorodifluoromethane	1652	100	2000	0	82.6	35-135	1820	9.68	30
Ethylbenzene	2173	200	2000	0	109	75-125	2246	3.3	30
Hexachlorobutadiene	2013	100	2000	0	101	55-140	1951	3.13	30
Hexachloroethane	1812	100	2000	0	90.6	70-135	1834	1.21	30
Iodomethane	1806	250	2000	0	90.3	70-135	1622	10.7	30
Isopropylbenzene	2013	100	2000	0	101	75-130	2112	4.8	30
m,p-Xylene	4329	200	4000	0	108	80-125	4461	3	30
Methyl tert-butyl ether	2468	150	2000	0	123	75-125	2506	1.53	30
Methylene chloride	2051	200	2000	0	103	55-145	2091	1.93	30
n-Butylbenzene	1892	50	2000	0	94.6	65-140	1904	0.632	30
n-Propylbenzene	1998	200	2000	0	99.9	65-135	2072	3.64	30
Naphthalene	1949	200	2000	0	97.4	40-140	1874	3.92	30
o-Xylene	2168	100	2000	0	108	75-125	2250	3.71	30
p-Isopropyltoluene	1838	950	2000	0	91.9	75-135	1875	1.99	30
sec-Butylbenzene	1982	100	2000	0	99.1	65-130	2084	5.02	30
Styrene	2005	150	2000	0	100	75-125	2055	2.46	30
tert-Butylbenzene	1995	150	2000	0	99.8	65-130	2086	4.46	30
Tetrachloroethene	1977	100	2000	0	98.8	64-140	2104	6.22	30
Tetrahydrofuran	2399	150	2000	0	120	70-135	2454	2.27	30
Toluene	2082	150	2000	0	104	70-125	2145	2.98	30
trans-1,2-Dichloroethene	2090	100	2000	0	104	65-135	2138	2.27	30
trans-1,3-Dichloropropene	1854	150	2000	0	92.7	65-125	1849	0.27	30
trans-1,4-Dichloro-2-butene	2263	350	2000	0	113	70-135	2104	7.28	30
Trichloroethene	2163	100	2000	0	108	75-125	2255	4.16	30
Trichlorofluoromethane	1321	100	2000	0	66	25-185	1374	3.93	30
Vinyl chloride	2124	200	2000	0	106	60-125	2214	4.15	30
Xylenes, Total	6497	300	6000	0	108	75-125	6711	3.24	30
Surr: 1,2-Dichloroethane-d4	*10050*	0	*10000*	0	*101*	*70-120*	9831	*2.23*	*30*
Surr: 4-Bromofluorobenzene	*9935*	0	*10000*	0	*99.4*	*75-120*	10180	*2.4*	*30*
Surr: Dibromofluoromethane	*10020*	0	*10000*	0	*100*	*85-115*	9988	*0.32*	*30*
Surr: Toluene-d8	*9889*	0	*10000*	0	*98.9*	*85-115*	9902	*0.131*	*30*

The following samples were analyzed in this batch: 1104520-01A 1104520-02A 1104520-03A

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89331** Instrument ID **VMS8** Method: **SW8260**

MBLK Sample ID: **VBLKW2-110423-R89331** Units: **µg/L** Analysis Date: **4/23/2011 10:08 PM**
Client ID: Run ID: **VMS8_110423B** SeqNo: **1608698** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloroform	ND	1.0								
Surr: 1,2-Dichloroethane-d4	*102.4*	0	*100*	0	*102*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*97.51*	0	*100*	0	*97.5*	*75-120*	0			
Surr: Dibromofluoromethane	*101.5*	0	*100*	0	*101*	*85-115*	0			
Surr: Toluene-d8	*97.23*	0	*100*	0	*97.2*	*85-120*	0			

LCS Sample ID: **VLCSW2-110423-R89331** Units: **µg/L** Analysis Date: **4/23/2011 08:46 PM**
Client ID: Run ID: **VMS8_110423B** SeqNo: **1608418** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloroform	22.81	1.0	20	0	114	65-135	0			
Surr: 1,2-Dichloroethane-d4	*102.9*	0	*100*	0	*103*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*100.2*	0	*100*	0	*100*	*75-120*	0			
Surr: Dibromofluoromethane	*103.2*	0	*100*	0	*103*	*85-115*	0			
Surr: Toluene-d8	*97.74*	0	*100*	0	*97.7*	*85-120*	0			

LCSD Sample ID: **VLCSDW2-110423-R89331** Units: **µg/L** Analysis Date: **4/23/2011 09:14 PM**
Client ID: Run ID: **VMS8_110423B** SeqNo: **1608697** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloroform	21.57	1.0	20	0	108	65-135	22.81	5.59	30	
Surr: 1,2-Dichloroethane-d4	*103.4*	0	*100*	0	*103*	*70-120*	102.9	*0.533*	*30*	
Surr: 4-Bromofluorobenzene	*99.68*	0	*100*	0	*99.7*	*75-120*	100.2	*0.56*	*30*	
Surr: Dibromofluoromethane	*101.3*	0	*100*	0	*101*	*85-115*	103.2	*1.77*	*30*	
Surr: Toluene-d8	*97.54*	0	*100*	0	*97.5*	*85-120*	97.74	*0.205*	*30*	

MS Sample ID: **1104444-05A MS** Units: **µg/L** Analysis Date: **4/24/2011 07:37 AM**
Client ID: Run ID: **VMS8_110423B** SeqNo: **1608923** Prep Date: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloroform	110	5.0	100	0	110	65-135	0			
Surr: 1,2-Dichloroethane-d4	*501.1*	0	*500*	0	*100*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*506.1*	0	*500*	0	*101*	*75-120*	0			
Surr: Dibromofluoromethane	*505.3*	0	*500*	0	*101*	*85-115*	0			
Surr: Toluene-d8	*484.4*	0	*500*	0	*96.9*	*85-120*	0			

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89331** Instrument ID **VMS8** Method: **SW8260**

MSD Sample ID: **1104444-05A MSD** Units: **µg/L** Analysis Date: **4/24/2011 08:04 AM**

Client ID: Run ID: **VMS8_110423B** SeqNo: **1608924** Prep Date: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloroform	104.1	5.0	100	0	104	65-135	110	5.47	30	
Surr: 1,2-Dichloroethane-d4	*492.8*	0	*500*	0	*98.6*	*70-120*	501.1	*1.66*	*30*	
Surr: 4-Bromofluorobenzene	*509.2*	0	*500*	0	*102*	*75-120*	506.1	*0.611*	*30*	
Surr: Dibromofluoromethane	*503.8*	0	*500*	0	*101*	*85-115*	505.3	*0.287*	*30*	
Surr: Toluene-d8	*481.4*	0	*500*	0	*96.3*	*85-120*	484.4	*0.611*	*30*	

The following samples were analyzed in this batch: 1104520-03A

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89339** Instrument ID **VMS9** Method: **SW8260**

MBLK Sample ID: **VBLKW2-110424-R89339** Units: **µg/L** Analysis Date: **4/25/2011 02:07 AM**
Client ID: Run ID: **VMS9_110424B** SeqNo: **1608693** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloroform	ND	1.0								
Surr: 1,2-Dichloroethane-d4	*100.3*	0	*100*	0	*100*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*92.05*	0	*100*	0	*92*	*75-120*	0			
Surr: Dibromofluoromethane	*95.31*	0	*100*	0	*95.3*	*85-115*	0			
Surr: Toluene-d8	*102.5*	0	*100*	0	*103*	*85-120*	0			

LCS Sample ID: **VLCSW2-110424-R89339** Units: **µg/L** Analysis Date: **4/25/2011 12:57 PM**
Client ID: Run ID: **VMS9_110424B** SeqNo: **1608694** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloroform	24.2	1.0	20	0	121	65-135	0			
Surr: 1,2-Dichloroethane-d4	*99.07*	0	*100*	0	*99.1*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*99.87*	0	*100*	0	*99.9*	*75-120*	0			
Surr: Dibromofluoromethane	*103.6*	0	*100*	0	*104*	*85-115*	0			
Surr: Toluene-d8	*99.52*	0	*100*	0	*99.5*	*85-120*	0			

LCSD Sample ID: **VLCSDW2-110424-R89339** Units: **µg/L** Analysis Date: **4/25/2011 01:20 AM**
Client ID: Run ID: **VMS9_110424B** SeqNo: **1608692** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloroform	23.59	1.0	20	0	118	65-135	24.2	2.55	30	
Surr: 1,2-Dichloroethane-d4	*99.05*	0	*100*	0	*99*	*70-120*	99.07	*0.0202*	*30*	
Surr: 4-Bromofluorobenzene	*99.48*	0	*100*	0	*99.5*	*75-120*	99.87	*0.391*	*30*	
Surr: Dibromofluoromethane	*102.9*	0	*100*	0	*103*	*85-115*	103.6	*0.697*	*30*	
Surr: Toluene-d8	*99.81*	0	*100*	0	*99.8*	*85-120*	99.52	*0.291*	*30*	

MS Sample ID: **1104458-04A MS** Units: **µg/L** Analysis Date: **4/25/2011 09:57 AM**
Client ID: Run ID: **VMS9_110424B** SeqNo: **1609035** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloroform	20.6	1.0	20	0	103	65-135	0			
Surr: 1,2-Dichloroethane-d4	*100.9*	0	*100*	0	*101*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*100.2*	0	*100*	0	*100*	*75-120*	0			
Surr: Dibromofluoromethane	*102.1*	0	*100*	0	*102*	*85-115*	0			
Surr: Toluene-d8	*99.16*	0	*100*	0	*99.2*	*85-120*	0			

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89339** Instrument ID **VMS9** Method: **SW8260**

MSD Sample ID: **1104458-04A MSD** Units: **µg/L** Analysis Date: **4/25/2011 10:20 AM**

Client ID: Run ID: **VMS9_110424B** SeqNo: **1609036** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloroform	21.47	1.0	20	0	107	65-135	20.6	4.14	30	
Surr: 1,2-Dichloroethane-d4	*101*	0	*100*	0	*101*	*70-120*	100.9	*0.0297*	*30*	
Surr: 4-Bromofluorobenzene	*100.2*	0	*100*	0	*100*	*75-120*	100.2	*0.02*	*30*	
Surr: Dibromofluoromethane	*101.4*	0	*100*	0	*101*	*85-115*	102.1	*0.678*	*30*	
Surr: Toluene-d8	*98.89*	0	*100*	0	*98.9*	*85-120*	99.16	*0.273*	*30*	

The following samples were analyzed in this batch: 1104520-01A

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

Client: Horizon Environmental
Work Order: 1104520
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89297** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS1-R89297** Units: **% of sample** Analysis Date: **4/21/2011 11:52 AM**
Client ID: Run ID: **MOIST_110421B** SeqNo: **1607650** 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-R89297** Units: **% of sample** Analysis Date: **4/21/2011 11:52 AM**
Client ID: Run ID: **MOIST_110421B** SeqNo: **1607645** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.050	100	0	100	99.5-100.5		0		

DUP Sample ID: **1104520-03B DUP** Units: **% of sample** Analysis Date: **4/21/2011 11:52 AM**
Client ID: **RO-S-VS-30** Run ID: **MOIST_110421B** SeqNo: **1607620** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	11.3	0.050	0	0	0	0-0	11.03	2.42	20	

DUP Sample ID: **1104533-03A DUP** Units: **% of sample** Analysis Date: **4/21/2011 11:52 AM**
Client ID: Run ID: **MOIST_110421B** SeqNo: **1607633** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	42.47	0.050	0	0	0	0-0	42.21	0.614	20	

The following samples were analyzed in this batch:

1104520-01B	1104520-02B	1104520-03B
1104520-04B	1104520-05B	1104520-06B

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

☐ ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

Page ____ of ____

COC ID: 11390

☐ ALS Environmental
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager:

ALS Work Order #: 1104520

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Reclamation Oil	A	VOC's
Work Order		Project Number		B	PCB's
Company Name	Horizon Environmental	Bill To Company	Horizon Environmental	C	LEAD
Send Report To	Karen Hathaway	Invoice Attn	Accounts Payable	D	Arsenic
Address	4771 50th Street	Address	4771 50th Street	E	
				F	
City/State/Zip	Grand Rapids, MI 49512	City/State/Zip	Grand Rapids, MI 49512	G	
Phone	(616) 554-3210	Phone	(616) 554-3210	H	
Fax	(616) 554-3211	Fax	(616) 554-3211	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	RO-S-VS-28	4-20-11	1200	Soil	methanol		X	X	X	X							
2	RO-S-VS-29		1205				X	X	X	X							
3	RO-S-VS-30		1210				X										
4	RO-S-VS-31		1215				X	X	X	X							
5	RO-S-VS-32		1220				X	X	X	X							
6	~~RO-S-VS-32 Duplicate~~ RO-FD-VS-32 KH	4/20/11	1225				X	X	X	X							
7	~~Trip Blank~~ RO-MB-03 KH	4/20/11					X										
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Mike Potter

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☒ 24 Hour ☐ Other ____

Results Due Date:

Notes:

	Date:	Time:		
Relinquished by:	4-20-11	1:17 pm	Received by:	
Relinquished by:	4/20/11		Received by (Laboratory):	4/21/11 0730
Logged by (Laboratory): DES	4/21/11	0800	Checked by (Laboratory):	

Cooler ID	Cooler Temp.
	3.4°C

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other ____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2010 by ALS Environmental.

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HORIZONENV-GR** Date/Time Received: **21-Apr-11 07:30**

Work Order: **1104520** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 21-Apr-11 (Date) Reviewed by: Joseph Ribar (eSignature) 21-Apr-11 (Date)

Matrices: Soil
Carrier name: City Transfer

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.4 c		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

DATA VALIDATION REPORT

RECLAMATION OIL SITE
6472 SELKIRK STREET
DETROIT, MICHIGAN

Date: May 17, 2011
Laboratory: ALS Laboratory Group (ALS), Holland, Michigan
Laboratory Work Order #: 1104753
Data Validation Performed By: Karen Hathaway, Horizon Environmental

This data validation report has been prepared by Horizon Environmental Corporation on behalf of the Respondents to the Administrative Settlement Agreement and Order on Consent for Removal Action Docket No. V-W-10-C-955 (Settlement Agreement) entered into by the U.S. Environmental Protection Agency (U.S. EPA) and Respondents[1] with an effective date of September 30, 2010.

This report documents the data validation for 5 soil samples (plus one duplicate sample and one methanol trip blank) collected from the Reclamation Oil Site that were analyzed for the following parameters by U.S. Environmental Protection Agency (U.S. EPA) methods:

- Target Compound List (TCL) Volatile Organic Compounds (VOC) by SW-846 Method 8260B;
- Polychlorinated biphenyls (PCB) by SW-846 Method 8082; and
- Arsenic and lead by SW-846 Method 6020A.

All of the collected samples were analyzed by the laboratory (100% completeness). A Level II data package was requested from ALS. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

VOCs BY SW-846 METHOD 8260B

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

[1] The Respondents consist of Univar USA Inc., SPX Corporation, BorgWarner Inc., and Ford Motor Company.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
RO-S-VS-37	1104753-01	Soil	4/29/2011	5/6/2011
RO-FD-VS-37	1104753-02	Soil	4/29/2011	5/6/2011
RO-S-VS-42	1104753-03	Soil	4/29/2011	5/6-7/2011
RO-S-VS-43	1104753-04	Soil	4/29/2011	5/6/2011
RO-S-VS-44	1104753-05	Soil	4/29/2011	5/6/2011
RO-S-VS-45	1104753-06	Soil	4/29/2011	5/6/2011
RO-MB-06	1104753-07	Soil	4/29/2011	5/7/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection.

3. Blanks

The method blanks were free of target compound contamination above the reporting limits. Naphthalene, hexachlorobuadiene, and methylene chloride were detected in one or more of the method blanks below the practical quantitation limits (PQLs). No qualifications are required because either 1) the investigative results were non-detect at limits higher than the blank detection, or 2) the compounds were detected at much higher concentrations in the investigative samples.

The methanol blank RO-MB-06 was free of target compound contamination above the reporting limit.

4. Surrogate Results

The surrogate recovery results were within the laboratory-established quality control (QC) limits.

5. Laboratory Control Sample (LCS) Results

The LCS percent recoveries were within laboratory-established QC limits except as follows. For the LCS/LCSD associated with analysis date May 5, 2011, 4-methyl-2-pentanone was outside the QC limits. For analyses of 4-methyl-2-pentanone dated May 5, 2011, non-detect quantitation limits were flagged "UJ" as estimated.

For the LCS/LCSD associated with analysis date May 7, 2011, acetone was detected below the quantitation limit. For analyses of acetone dated May 7, 2011, non-detect quantitation limits were flagged "UJ" as estimated.

6. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

The MS/MSD results associated with the samples analyzed on May 6, 2011 had detections or recoveries outside QC limits for the following: acetone, chloromethane and trans-1,4-dichloro-2-butene. The MS/MSD results associated with the samples analyzed on May 7, 2011 had recoveries outside QC limits for chloromethane. For the corresponding samples, quantitation limits for non-detected results for these compounds were flagged "UJ" as estimated.

7. Field Duplicate Results

A field duplicate sample was collected at the frequency specified in the QAPP. Sample RO-FD-VS-37 is a duplicate of sample RO-S-VS-37. Field duplicate sample RO-FD-VS-37 showed poor correlation (greater than 35% difference) with the investigative sample for most compounds. This poor correlation in duplicate results was attributed to the heterogeneous nature of the sample location. Because all of the detections were well below regulatory criteria, no qualification of the data or corrective action was needed.

8. Overall Assessment

The VOC data are acceptable for use as qualified based on the information received.

PCBS BY SW-846 METHOD 8082

1. Samples

The following table summarizes the samples for which this data validation was conducted.

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
RO-S-VS-37	1104753-01	Soil	4/29/2011	5/2/2011	5/2/2011
RO-FD-VS-37	1104753-02	Soil	4/29/2011	5/2/2011	5/2/2011
RO-S-VS-42	1104753-03	Soil	4/29/2011	5/2/2011	5/2/2011
RO-S-VS-43	1104753-04	Soil	4/29/2011	5/2/2011	5/2/2011
RO-S-VS-44	1104753-05	Soil	4/29/2011	5/2/2011	5/2/2011
RO-S-VS-45	1104753-06	Soil	4/29/2011	5/2/2011	5/2/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

3. Blanks

The method blank was free of target compound contamination above the reporting limit.

4. Surrogates

The surrogate recovery results were within the laboratory-established QC limits.

5. LCS Results

The LCS recoveries were within the laboratory-established QC limits.

6. MS and MSD Results

Percent recoveries and RPDs for the MS/MSD samples were within laboratory QC limits.

7. Field Duplicate Results

Field duplicate samples for PCB analysis were collected at the frequency specified in the QAPP. Sample RO-FD-VS-37 is a duplicate of sample RO-S-VS-37. Field duplicate sample RO-FD-VS-37 showed good correlation with the investigative sample (all non-detect).

8. Overall Assessment

The PCB data are acceptable for use based on the information received.

ARSENIC AND LEAD BY SW-846 METHOD 6020A

1. Samples

The following table summarizes the samples for which this data validation was conducted.

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
RO-S-VS-37	1104753-01	Soil	4/29/2011	5/3/2011	5/3/2011
RO-FD-VS-37	1104753-02	Soil	4/29/2011	5/3/2011	5/3/2011
RO-S-VS-42	1104753-03	Soil	4/29/2011	5/3/2011	5/3/2011
RO-S-VS-43	1104753-04	Soil	4/29/2011	5/3/2011	5/3/2011
RO-S-VS-44	1104753-05	Soil	4/29/2011	5/3/2011	5/3/2011
RO-S-VS-45	1104753-06	Soil	4/29/2011	5/3/2011	5/4/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 180 days from sample collection to analysis.

3. Blanks

The method blank was free of target compound contamination above the reporting limit. Lead was detected in the method blank below the PQL. Because lead was detected at higher concentrations in the samples, no qualification is required.

4. LCS Results

The LCS recoveries were within the laboratory-established QC limits.

5. MS and MSD Results

Arsenic recoveries were outside laboratory QC limits for the MS/MSD samples analyzed on May 3, 2011. For samples analyzed for lead on May 3, 2011, detected results were flagged "J" as estimated.

6. Field Duplicate Results

Field duplicate samples for metals analysis were collected at the frequency specified in the QAPP. Sample RO-FD-VS-37 is a duplicate of sample RO-S-VS-37. Field duplicate sample RO-FD-VS-37 showed good correlation for arsenic and poor correlation (greater than 35% difference) for lead in the investigative sample. This poor correlation in duplicate results was attributed to the heterogeneous nature of the sample location. Because all of the detections were well below regulatory criteria, no qualification of the data or corrective action was needed.

7. Overall Assessment

The metals data are acceptable for use as qualified based on the information received.

ATTACHMENT

ALS LABORATORY GROUP
RESULTS SUMMARY WITH QUALIFIERS

17-May-2011

Bill Davidson
Horizon Environmental
4771 50th Street
Grand Rapids, MI 49512

Re: **Reclamation Oil** Work Order: **1104753**

Dear Bill,

ALS Environmental received 7 samples on 30-Apr-2011 08:30 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.

QC sample results for this data met 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 58.

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

Sincerely,

Joseph Ribar

Electronically approved by: Joseph Ribar

Joseph Ribar
Project Manager

Certificate No: IL100452

ALS Group USA, Corp

Date: 17-May-11

Client: Horizon Environmental
Project: Reclamation Oil
Work Order: **1104753**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1104753-01	RO-S-VS-37	Soil		4/29/2011 12:55	4/30/2011 08:30	☐
1104753-02	RO-FD-VS-37	Soil		4/29/2011 12:50	4/30/2011 08:30	☐
1104753-03	RO-S-VS-42	Soil		4/29/2011 12:35	4/30/2011 08:30	☐
1104753-04	RO-S-VS-43	Soil		4/29/2011 12:30	4/30/2011 08:30	☐
1104753-05	RO-S-VS-44	Soil		4/29/2011 12:25	4/30/2011 08:30	☐
1104753-06	RO-S-VS-45	Soil		4/29/2011 12:20	4/30/2011 08:30	☐
1104753-07	RO-MB-06	Soil		4/29/2011	4/30/2011 08:30	☐

Client: Horizon Environmental
Project: Reclamation Oil
Work Order: 1104753

Case Narrative

QC Summary

Metals by ICP-MS

Batch 33108, Method 6020, Sample 1104738-09B MS/MSD, Arsenic recoveries were outside control limits due to matrix interference.

Volatile Organic Compounds

Batch R89778

Batch R89778, Method 8260, Sample VLCSW1/VLCSDW1-110505: 4-Methyl-2-pentanone exceeded the upper control limits in the LCS and LCSD; however no hits were reported in any of this project's samples. MS/MSD recoveries were also within control limits.

Batch R89814, Method 8260, Sample 1104743-32A MS/MSD, Compound recoveries were outside control limits due to matrix interference.

Batch R89818, Method 8260, Sample 1104771-14A MS/MSD, Chloromethane recoveries were outside control limits due to matrix interference.

ALS Group USA, Corp

Date: 17-May-11

Client: Horizon Environmental
Project: Reclamation Oil
WorkOrder: **1104753**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	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 detected below quantitation 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

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
TDL	Target Detection Limit

Units Reported	Description
% of sample	Percent of Sample
µg/Kg	Micrograms per Kilogram
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-37
Collection Date: 4/29/2011 12:55 PM

Work Order: 1104753
Lab ID: 1104753-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **5/2/2011**	Analyst: **JD**
Aroclor 1016	ND		52	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1221	ND		52	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1232	ND		52	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1242	ND		52	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1248	ND		52	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1254	ND		52	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1260	ND		52	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1262	ND		52	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1268	ND		52	µg/Kg-dry	1	5/2/2011 04:44 PM
Surr: Decachlorobiphenyl	*89.1*		*40-140*	*%REC*	1	5/2/2011 04:44 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **5/3/2011**	Analyst: **CES**
Arsenic	**0.91**		**0.20**	**mg/Kg-dry**	1	5/3/2011 04:50 PM KH
Lead	**6.4**	J	**0.20**	**mg/Kg-dry**	1	5/3/2011 04:50 PM 5/17/11
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **BG**
1,1,1,2-Tetrachloroethane	ND		190	µg/Kg-dry	100	5/6/2011 09:31 PM
1,1,1-Trichloroethane	**980**		**130**	**µg/Kg-dry**	100	5/6/2011 09:31 PM
1,1,2,2-Tetrachloroethane	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
1,1,2-Trichloroethane	ND		65	µg/Kg-dry	100	5/6/2011 09:31 PM
1,1,2-Trichlorotrifluoroethane	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
1,1-Dichloroethane	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
1,1-Dichloroethene	ND		65	µg/Kg-dry	100	5/6/2011 09:31 PM
1,1-Dichloropropene	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
1,2,3-Trichlorobenzene	ND		260	µg/Kg-dry	100	5/6/2011 09:31 PM
1,2,3-Trichloropropane	ND		260	µg/Kg-dry	100	5/6/2011 09:31 PM
1,2,4-Trichlorobenzene	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
1,2,4-Trimethylbenzene	**1,100**		**130**	**µg/Kg-dry**	100	5/6/2011 09:31 PM
1,2-Dibromo-3-chloropropane	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
1,2-Dibromoethane	ND		190	µg/Kg-dry	100	5/6/2011 09:31 PM
1,2-Dichlorobenzene	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
1,2-Dichloroethane	ND		65	µg/Kg-dry	100	5/6/2011 09:31 PM
1,2-Dichloropropane	ND		65	µg/Kg-dry	100	5/6/2011 09:31 PM
1,3,5-Trimethylbenzene	**5,900**		**130**	**µg/Kg-dry**	100	5/6/2011 09:31 PM
1,3-Dichlorobenzene	ND		65	µg/Kg-dry	100	5/6/2011 09:31 PM
1,3-Dichloropropane	ND		65	µg/Kg-dry	100	5/6/2011 09:31 PM
1,4-Dichlorobenzene	ND		65	µg/Kg-dry	100	5/6/2011 09:31 PM
2,2-Dichloropropane	ND		65	µg/Kg-dry	100	5/6/2011 09:31 PM
2-Butanone	ND		970	µg/Kg-dry	100	5/6/2011 09:31 PM
2-Chlorotoluene	ND		65	µg/Kg-dry	100	5/6/2011 09:31 PM

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-37
Collection Date: 4/29/2011 12:55 PM

Work Order: 1104753
Lab ID: 1104753-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Hexanone	ND		650	µg/Kg-dry	100	5/6/2011 09:31 PM
2-Methylnaphthalene	**1,300**		**390**	**µg/Kg-dry**	100	5/6/2011 09:31 PM
4-Chlorotoluene	ND		260	µg/Kg-dry	100	5/6/2011 09:31 PM
4-Methyl-2-pentanone	ND		650	µg/Kg-dry	100	5/6/2011 09:31 PM
Acetone	ND	UJ	580	µg/Kg-dry	100	5/6/2011 09:31 PM
Acrylonitrile	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
Benzene	ND		65	µg/Kg-dry	100	5/6/2011 09:31 PM
Bromobenzene	ND		190	µg/Kg-dry	100	5/6/2011 09:31 PM
Bromochloromethane	ND		190	µg/Kg-dry	100	5/6/2011 09:31 PM
Bromodichloromethane	ND		190	µg/Kg-dry	100	5/6/2011 09:31 PM
Bromoform	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
Carbon disulfide	ND		190	µg/Kg-dry	100	5/6/2011 09:31 PM
Carbon tetrachloride	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
Chlorobenzene	ND		190	µg/Kg-dry	100	5/6/2011 09:31 PM
Chloroethane	ND		390	µg/Kg-dry	100	5/6/2011 09:31 PM
Chloroform	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
Chloromethane	ND	UJ	390	µg/Kg-dry	100	5/6/2011 09:31 PM
cis-1,2-Dichloroethene	ND		260	µg/Kg-dry	100	5/6/2011 09:31 PM
cis-1,3-Dichloropropene	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
Dibromochloromethane	ND		260	µg/Kg-dry	100	5/6/2011 09:31 PM
Dibromomethane	ND		260	µg/Kg-dry	100	5/6/2011 09:31 PM
Dichlorodifluoromethane	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
Diethyl ether	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
Diisopropyl ether	ND		650	µg/Kg-dry	100	5/6/2011 09:31 PM
Ethyl tert butyl ether	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
Ethylbenzene	ND		260	µg/Kg-dry	100	5/6/2011 09:31 PM
Heptane	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
Hexachlorobutadiene	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
Hexachloroethane	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
Hexane	ND		390	µg/Kg-dry	100	5/6/2011 09:31 PM
Iodomethane	ND		320	µg/Kg-dry	100	5/6/2011 09:31 PM
Isopropylbenzene	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
m,p-Xylene	**1,100**		**260**	**µg/Kg-dry**	100	5/6/2011 09:31 PM
Methyl tert-butyl ether	ND		190	µg/Kg-dry	100	5/6/2011 09:31 PM
Methylene chloride	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
n-Butylbenzene	**1,800**		**65**	**µg/Kg-dry**	100	5/6/2011 09:31 PM
n-Propylbenzene	ND		260	µg/Kg-dry	100	5/6/2011 09:31 PM
Naphthalene	**1,300**		**260**	**µg/Kg-dry**	100	5/6/2011 09:31 PM
o-Xylene	**3,800**		**130**	**µg/Kg-dry**	100	5/6/2011 09:31 PM
p-Isopropyltoluene	**1,000**		**130**	**µg/Kg-dry**	100	5/6/2011 09:31 PM

KA 5/17/11

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-37
Collection Date: 4/29/2011 12:55 PM

Work Order: 1104753
Lab ID: 1104753-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
Styrene	ND		190	µg/Kg-dry	100	5/6/2011 09:31 PM
tert-Amyl methyl ether	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
tert-Butyl alcohol	ND		650	µg/Kg-dry	100	5/6/2011 09:31 PM
tert-Butylbenzene	ND		190	µg/Kg-dry	100	5/6/2011 09:31 PM
Tetrachloroethene	ND		65	µg/Kg-dry	100	5/6/2011 09:31 PM
Tetrahydrofuran	ND		190	µg/Kg-dry	100	5/6/2011 09:31 PM
Toluene	**650**		**190**	**µg/Kg-dry**	100	5/6/2011 09:31 PM
trans-1,2-Dichloroethene	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
trans-1,3-Dichloropropene	ND		190	µg/Kg-dry	100	5/6/2011 09:31 PM KA
trans-1,4-Dichloro-2-butene	ND	UJ	450	µg/Kg-dry	100	5/6/2011 09:31 PM 5/17/11
Trichloroethene	ND		65	µg/Kg-dry	100	5/6/2011 09:31 PM
Trichlorofluoromethane	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
Vinyl acetate	ND		1,900	µg/Kg-dry	100	5/6/2011 09:31 PM
Vinyl chloride	ND		52	µg/Kg-dry	100	5/6/2011 09:31 PM
1,2-Dichloroethene, Total	ND		320	µg/Kg-dry	100	5/6/2011 09:31 PM
1,3-Dichloropropene, Total	ND		130	µg/Kg-dry	100	5/6/2011 09:31 PM
Xylenes, Total	**4,800**		**390**	**µg/Kg-dry**	100	5/6/2011 09:31 PM
Surr: 1,2-Dichloroethane-d4	*97.7*		*70-120*	*%REC*	100	5/6/2011 09:31 PM
Surr: 4-Bromofluorobenzene	*119*		*75-120*	*%REC*	100	5/6/2011 09:31 PM
Surr: Dibromofluoromethane	*99.1*		*85-115*	*%REC*	100	5/6/2011 09:31 PM
Surr: Toluene-d8	*100*		*85-115*	*%REC*	100	5/6/2011 09:31 PM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**23**		**0.050**	**% of sample**	1	5/2/2011 08:42 AM

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-FD-VS-37
Collection Date: 4/29/2011 12:50 PM

Work Order: 1104753
Lab ID: 1104753-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **5/2/2011**	Analyst: **JD**
Aroclor 1016	ND		49	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1221	ND		49	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1232	ND		49	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1242	ND		49	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1248	ND		49	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1254	ND		49	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1260	ND		49	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1262	ND		49	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1268	ND		49	µg/Kg-dry	1	5/2/2011 04:44 PM
Surr: Decachlorobiphenyl	*96.1*		*40-140*	*%REC*	1	5/2/2011 04:44 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **5/3/2011**	Analyst: **CES**
Arsenic	**0.80**		**0.19**	**mg/Kg-dry**	1	5/3/2011 04:56 PM
Lead	**2.7**	J	**0.19**	**mg/Kg-dry**	1	5/3/2011 04:56 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
1,1,1,2-Tetrachloroethane	ND		190	µg/Kg-dry	100	5/6/2011 01:14 AM
1,1,1-Trichloroethane	**2,400**		**130**	**µg/Kg-dry**	100	5/6/2011 01:14 AM
1,1,2,2-Tetrachloroethane	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
1,1,2-Trichloroethane	ND		64	µg/Kg-dry	100	5/6/2011 01:14 AM
1,1,2-Trichlorotrifluoroethane	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
1,1-Dichloroethane	**240**		**130**	**µg/Kg-dry**	100	5/6/2011 01:14 AM
1,1-Dichloroethene	ND		64	µg/Kg-dry	100	5/6/2011 01:14 AM
1,1-Dichloropropene	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
1,2,3-Trichlorobenzene	ND		260	µg/Kg-dry	100	5/6/2011 01:14 AM
1,2,3-Trichloropropane	ND		260	µg/Kg-dry	100	5/6/2011 01:14 AM
1,2,4-Trichlorobenzene	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
1,2,4-Trimethylbenzene	**960**		**130**	**µg/Kg-dry**	100	5/6/2011 01:14 AM
1,2-Dibromo-3-chloropropane	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
1,2-Dibromoethane	ND		190	µg/Kg-dry	100	5/6/2011 01:14 AM
1,2-Dichlorobenzene	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
1,2-Dichloroethane	ND		64	µg/Kg-dry	100	5/6/2011 01:14 AM
1,2-Dichloropropane	ND		64	µg/Kg-dry	100	5/6/2011 01:14 AM
1,3,5-Trimethylbenzene	**20,000**		**640**	**µg/Kg-dry**	500	5/6/2011 10:19 PM
1,3-Dichlorobenzene	ND		64	µg/Kg-dry	100	5/6/2011 01:14 AM
1,3-Dichloropropane	ND		64	µg/Kg-dry	100	5/6/2011 01:14 AM
1,4-Dichlorobenzene	ND		64	µg/Kg-dry	100	5/6/2011 01:14 AM
2,2-Dichloropropane	ND		64	µg/Kg-dry	100	5/6/2011 01:14 AM
2-Butanone	ND		960	µg/Kg-dry	100	5/6/2011 01:14 AM
2-Chlorotoluene	ND		64	µg/Kg-dry	100	5/6/2011 01:14 AM

KA 5/17/11

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-FD-VS-37
Collection Date: 4/29/2011 12:50 PM

Work Order: 1104753
Lab ID: 1104753-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Hexanone	ND		640	µg/Kg-dry	100	5/6/2011 01:14 AM
2-Methylnaphthalene	**3,700**		**380**	**µg/Kg-dry**	100	5/6/2011 01:14 AM
4-Chlorotoluene	ND		260	µg/Kg-dry	100	5/6/2011 01:14 AM
4-Methyl-2-pentanone	ND		640	µg/Kg-dry	100	5/6/2011 01:14 AM
Acetone	ND	UJ	570	µg/Kg-dry	100	5/6/2011 01:14 AM
Acrylonitrile	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
Benzene	ND		64	µg/Kg-dry	100	5/6/2011 01:14 AM KA
Bromobenzene	ND		190	µg/Kg-dry	100	5/6/2011 01:14 AM
Bromochloromethane	ND		190	µg/Kg-dry	100	5/6/2011 01:14 AM 5/02/11
Bromodichloromethane	ND		190	µg/Kg-dry	100	5/6/2011 01:14 AM
Bromoform	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
Carbon disulfide	ND		190	µg/Kg-dry	100	5/6/2011 01:14 AM
Carbon tetrachloride	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
Chlorobenzene	ND		190	µg/Kg-dry	100	5/6/2011 01:14 AM
Chloroethane	ND		380	µg/Kg-dry	100	5/6/2011 01:14 AM
Chloroform	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
Chloromethane	ND	UJ	380	µg/Kg-dry	100	5/6/2011 01:14 AM
cis-1,2-Dichloroethene	ND		260	µg/Kg-dry	100	5/6/2011 01:14 AM
cis-1,3-Dichloropropene	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
Dibromochloromethane	ND		260	µg/Kg-dry	100	5/6/2011 01:14 AM
Dibromomethane	ND		260	µg/Kg-dry	100	5/6/2011 01:14 AM
Dichlorodifluoromethane	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
Diethyl ether	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
Diisopropyl ether	ND		640	µg/Kg-dry	100	5/6/2011 01:14 AM
Ethyl tert butyl ether	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
Ethylbenzene	ND		260	µg/Kg-dry	100	5/6/2011 01:14 AM
Heptane	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
Hexachlorobutadiene	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
Hexachloroethane	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
Hexane	ND		380	µg/Kg-dry	100	5/6/2011 01:14 AM
Iodomethane	ND		320	µg/Kg-dry	100	5/6/2011 01:14 AM
Isopropylbenzene	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
m,p-Xylene	**620**		**260**	**µg/Kg-dry**	100	5/6/2011 01:14 AM
Methyl tert-butyl ether	ND		190	µg/Kg-dry	100	5/6/2011 01:14 AM
Methylene chloride	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
n-Butylbenzene	ND		64	µg/Kg-dry	100	5/6/2011 01:14 AM
n-Propylbenzene	ND		260	µg/Kg-dry	100	5/6/2011 01:14 AM
Naphthalene	**3,400**		**260**	**µg/Kg-dry**	100	5/6/2011 01:14 AM
o-Xylene	**12,000**		**640**	**µg/Kg-dry**	500	5/6/2011 10:19 PM
p-Isopropyltoluene	**200**		**130**	**µg/Kg-dry**	100	5/6/2011 01:14 AM

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-FD-VS-37
Collection Date: 4/29/2011 12:50 PM

Work Order: 1104753
Lab ID: 1104753-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
Styrene	ND		190	µg/Kg-dry	100	5/6/2011 01:14 AM
tert-Amyl methyl ether	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
tert-Butyl alcohol	ND		640	µg/Kg-dry	100	5/6/2011 01:14 AM
tert-Butylbenzene	ND		190	µg/Kg-dry	100	5/6/2011 01:14 AM
Tetrachloroethene	ND		64	µg/Kg-dry	100	5/6/2011 01:14 AM
Tetrahydrofuran	ND		190	µg/Kg-dry	100	5/6/2011 01:14 AM
Toluene	ND		190	µg/Kg-dry	100	5/6/2011 01:14 AM
trans-1,2-Dichloroethene	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
trans-1,3-Dichloropropene	ND		190	µg/Kg-dry	100	5/6/2011 01:14 AM
trans-1,4-Dichloro-2-butene	ND	UJ	450	µg/Kg-dry	100	5/6/2011 01:14 AM
Trichloroethene	ND		64	µg/Kg-dry	100	5/6/2011 01:14 AM
Trichlorofluoromethane	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
Vinyl acetate	ND		1,900	µg/Kg-dry	100	5/6/2011 01:14 AM
Vinyl chloride	ND		51	µg/Kg-dry	100	5/6/2011 01:14 AM
1,2-Dichloroethene, Total	ND		320	µg/Kg-dry	100	5/6/2011 01:14 AM
1,3-Dichloropropene, Total	ND		130	µg/Kg-dry	100	5/6/2011 01:14 AM
Xylenes, Total	**13,000**		**1,900**	**µg/Kg-dry**	500	5/6/2011 10:19 PM
Surr: 1,2-Dichloroethane-d4	*99.3*		*70-120*	*%REC*	500	5/6/2011 10:19 PM
Surr: 1,2-Dichloroethane-d4	*99.8*		*70-120*	*%REC*	100	5/6/2011 01:14 AM
Surr: 4-Bromofluorobenzene	*111*		*75-120*	*%REC*	500	5/6/2011 10:19 PM
Surr: 4-Bromofluorobenzene	*109*		*75-120*	*%REC*	100	5/6/2011 01:14 AM
Surr: Dibromofluoromethane	*107*		*85-115*	*%REC*	500	5/6/2011 10:19 PM
Surr: Dibromofluoromethane	*98.6*		*85-115*	*%REC*	100	5/6/2011 01:14 AM
Surr: Toluene-d8	*101*		*85-115*	*%REC*	100	5/6/2011 01:14 AM
Surr: Toluene-d8	*101*		*85-115*	*%REC*	500	5/6/2011 10:19 PM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**22**		**0.050**	**% of sample**	1	5/2/2011 08:42 AM

KH 5/17/11

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-42
Collection Date: 4/29/2011 12:35 PM

Work Order: 1104753
Lab ID: 1104753-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **5/2/2011**	Analyst: **JD**
Aroclor 1016	ND		50	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1221	ND		50	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1232	ND		50	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1242	ND		50	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1248	ND		50	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1254	ND		50	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1260	ND		50	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1262	ND		50	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1268	ND		50	µg/Kg-dry	1	5/2/2011 04:44 PM
Surr: Decachlorobiphenyl	*92.1*		*40-140*	*%REC*	1	5/2/2011 04:44 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **5/3/2011**	Analyst: **CES**
Arsenic	**4.2**		**0.19**	**mg/Kg-dry**	1	5/3/2011 05:02 PM KH
Lead	**54**	J	**0.19**	**mg/Kg-dry**	1	5/3/2011 05:02 PM 5/17/11
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
1,1,1,2-Tetrachloroethane	ND		190	µg/Kg-dry	100	5/6/2011 02:35 AM
1,1,1-Trichloroethane	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
1,1,2,2-Tetrachloroethane	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
1,1,2-Trichloroethane	ND		62	µg/Kg-dry	100	5/6/2011 02:35 AM
1,1,2-Trichlorotrifluoroethane	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
1,1-Dichloroethane	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
1,1-Dichloroethene	ND		62	µg/Kg-dry	100	5/6/2011 02:35 AM
1,1-Dichloropropene	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
1,2,3-Trichlorobenzene	ND		250	µg/Kg-dry	100	5/6/2011 02:35 AM
1,2,3-Trichloropropane	ND		250	µg/Kg-dry	100	5/6/2011 02:35 AM
1,2,4-Trichlorobenzene	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
1,2,4-Trimethylbenzene	**25,000**		**620**	**µg/Kg-dry**	500	5/7/2011 04:33 PM
1,2-Dibromo-3-chloropropane	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
1,2-Dibromoethane	ND		190	µg/Kg-dry	100	5/6/2011 02:35 AM
1,2-Dichlorobenzene	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
1,2-Dichloroethane	ND		62	µg/Kg-dry	100	5/6/2011 02:35 AM
1,2-Dichloropropane	ND		62	µg/Kg-dry	100	5/6/2011 02:35 AM
1,3,5-Trimethylbenzene	**230**		**120**	**µg/Kg-dry**	100	5/6/2011 02:35 AM
1,3-Dichlorobenzene	ND		62	µg/Kg-dry	100	5/6/2011 02:35 AM
1,3-Dichloropropane	ND		62	µg/Kg-dry	100	5/6/2011 02:35 AM
1,4-Dichlorobenzene	ND		62	µg/Kg-dry	100	5/6/2011 02:35 AM
2,2-Dichloropropane	ND		62	µg/Kg-dry	100	5/6/2011 02:35 AM
2-Butanone	ND		940	µg/Kg-dry	100	5/6/2011 02:35 AM
2-Chlorotoluene	ND		62	µg/Kg-dry	100	5/6/2011 02:35 AM

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-42
Collection Date: 4/29/2011 12:35 PM

Work Order: 1104753
Lab ID: 1104753-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Hexanone	ND		620	µg/Kg-dry	100	5/6/2011 02:35 AM
2-Methylnaphthalene	**8,700**		**370**	**µg/Kg-dry**	100	5/6/2011 02:35 AM
4-Chlorotoluene	ND		250	µg/Kg-dry	100	5/6/2011 02:35 AM
4-Methyl-2-pentanone	ND		620	µg/Kg-dry	100	5/6/2011 02:35 AM
Acetone	ND	UJ	560	µg/Kg-dry	100	5/6/2011 02:35 AM
Acrylonitrile	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
Benzene	ND		62	µg/Kg-dry	100	5/6/2011 02:35 AM KH
Bromobenzene	ND		190	µg/Kg-dry	100	5/6/2011 02:35 AM
Bromochloromethane	ND		190	µg/Kg-dry	100	5/6/2011 02:35 AM 5/17/11
Bromodichloromethane	ND		190	µg/Kg-dry	100	5/6/2011 02:35 AM
Bromoform	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
Carbon disulfide	ND		190	µg/Kg-dry	100	5/6/2011 02:35 AM
Carbon tetrachloride	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
Chlorobenzene	ND		190	µg/Kg-dry	100	5/6/2011 02:35 AM
Chloroethane	ND		370	µg/Kg-dry	100	5/6/2011 02:35 AM
Chloroform	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
Chloromethane	ND	UJ	370	µg/Kg-dry	100	5/6/2011 02:35 AM
cis-1,2-Dichloroethene	ND		250	µg/Kg-dry	100	5/6/2011 02:35 AM
cis-1,3-Dichloropropene	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
Dibromochloromethane	ND		250	µg/Kg-dry	100	5/6/2011 02:35 AM
Dibromomethane	ND		250	µg/Kg-dry	100	5/6/2011 02:35 AM
Dichlorodifluoromethane	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
Diethyl ether	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
Diisopropyl ether	ND		620	µg/Kg-dry	100	5/6/2011 02:35 AM
Ethyl tert butyl ether	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
Ethylbenzene	ND		250	µg/Kg-dry	100	5/6/2011 02:35 AM
Heptane	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
Hexachlorobutadiene	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
Hexachloroethane	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
Hexane	ND		370	µg/Kg-dry	100	5/6/2011 02:35 AM
Iodomethane	ND		310	µg/Kg-dry	100	5/6/2011 02:35 AM
Isopropylbenzene	**320**		**120**	**µg/Kg-dry**	100	5/6/2011 02:35 AM
m,p-Xylene	**370**		**250**	**µg/Kg-dry**	100	5/6/2011 02:35 AM
Methyl tert-butyl ether	ND		190	µg/Kg-dry	100	5/6/2011 02:35 AM
Methylene chloride	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
n-Butylbenzene	**6,300**		**62**	**µg/Kg-dry**	100	5/6/2011 02:35 AM
n-Propylbenzene	**980**		**250**	**µg/Kg-dry**	100	5/6/2011 02:35 AM
Naphthalene	**8,300**		**250**	**µg/Kg-dry**	100	5/6/2011 02:35 AM
o-Xylene	**160**		**120**	**µg/Kg-dry**	100	5/6/2011 02:35 AM
p-Isopropyltoluene	**3,000**		**120**	**µg/Kg-dry**	100	5/6/2011 02:35 AM

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-42
Collection Date: 4/29/2011 12:35 PM

Work Order: 1104753
Lab ID: 1104753-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	**1,800**		**120**	**µg/Kg-dry**	100	5/6/2011 02:35 AM
Styrene	ND		190	µg/Kg-dry	100	5/6/2011 02:35 AM
tert-Amyl methyl ether	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
tert-Butyl alcohol	ND		620	µg/Kg-dry	100	5/6/2011 02:35 AM
tert-Butylbenzene	ND		190	µg/Kg-dry	100	5/6/2011 02:35 AM
Tetrachloroethene	ND		62	µg/Kg-dry	100	5/6/2011 02:35 AM
Tetrahydrofuran	ND		190	µg/Kg-dry	100	5/6/2011 02:35 AM
Toluene	ND		190	µg/Kg-dry	100	5/6/2011 02:35 AM
trans-1,2-Dichloroethene	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM KA
trans-1,3-Dichloropropene	ND		190	µg/Kg-dry	100	5/6/2011 02:35 AM
trans-1,4-Dichloro-2-butene	ND	UJ	440	µg/Kg-dry	100	5/6/2011 02:35 AM 5/17/11
Trichloroethene	ND		62	µg/Kg-dry	100	5/6/2011 02:35 AM
Trichlorofluoromethane	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
Vinyl acetate	ND		1,900	µg/Kg-dry	100	5/6/2011 02:35 AM
Vinyl chloride	ND		50	µg/Kg-dry	100	5/6/2011 02:35 AM
1,2-Dichloroethene, Total	ND		310	µg/Kg-dry	100	5/6/2011 02:35 AM
1,3-Dichloropropene, Total	ND		120	µg/Kg-dry	100	5/6/2011 02:35 AM
Xylenes, Total	**530**		**370**	**µg/Kg-dry**	100	5/6/2011 02:35 AM
Surr: 1,2-Dichloroethane-d4	*97.0*		*70-120*	*%REC*	500	5/7/2011 04:33 PM
Surr: 1,2-Dichloroethane-d4	*99.2*		*70-120*	*%REC*	100	5/6/2011 02:35 AM
Surr: 4-Bromofluorobenzene	*112*		*75-120*	*%REC*	500	5/7/2011 04:33 PM
Surr: 4-Bromofluorobenzene	*108*		*75-120*	*%REC*	100	5/6/2011 02:35 AM
Surr: Dibromofluoromethane	*107*		*85-115*	*%REC*	500	5/7/2011 04:33 PM
Surr: Dibromofluoromethane	*93.9*		*85-115*	*%REC*	100	5/6/2011 02:35 AM
Surr: Toluene-d8	*99.2*		*85-115*	*%REC*	100	5/6/2011 02:35 AM
Surr: Toluene-d8	*98.1*		*85-115*	*%REC*	500	5/7/2011 04:33 PM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**20**		**0.050**	**% of sample**	1	5/2/2011 08:42 AM

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-43
Collection Date: 4/29/2011 12:30 PM

Work Order: 1104753
Lab ID: 1104753-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **5/2/2011**	Analyst: **JD**
Aroclor 1016	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1221	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1232	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1242	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1248	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1254	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1260	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1262	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1268	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Surr: Decachlorobiphenyl	*84.1*		*40-140*	*%REC*	1	5/2/2011 04:44 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **5/3/2011**	Analyst: **CES**
Arsenic	**3.2**		**0.17**	**mg/Kg-dry**	1	5/3/2011 05:08 PM KH
Lead	**42**	J	**0.17**	**mg/Kg-dry**	1	5/3/2011 05:08 PM 5/17/11
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
1,1,1,2-Tetrachloroethane	ND		180	µg/Kg-dry	100	5/6/2011 01:41 AM
1,1,1-Trichloroethane	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
1,1,2,2-Tetrachloroethane	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
1,1,2-Trichloroethane	ND		61	µg/Kg-dry	100	5/6/2011 01:41 AM
1,1,2-Trichlorotrifluoroethane	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
1,1-Dichloroethane	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
1,1-Dichloroethene	ND		61	µg/Kg-dry	100	5/6/2011 01:41 AM
1,1-Dichloropropene	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
1,2,3-Trichlorobenzene	ND		250	µg/Kg-dry	100	5/6/2011 01:41 AM
1,2,3-Trichloropropane	ND		250	µg/Kg-dry	100	5/6/2011 01:41 AM
1,2,4-Trichlorobenzene	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
1,2,4-Trimethylbenzene	**16,000**		**610**	**µg/Kg-dry**	500	5/6/2011 10:43 PM
1,2-Dibromo-3-chloropropane	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
1,2-Dibromoethane	ND		180	µg/Kg-dry	100	5/6/2011 01:41 AM
1,2-Dichlorobenzene	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
1,2-Dichloroethane	ND		61	µg/Kg-dry	100	5/6/2011 01:41 AM
1,2-Dichloropropane	ND		61	µg/Kg-dry	100	5/6/2011 01:41 AM
1,3,5-Trimethylbenzene	**3,000**		**120**	**µg/Kg-dry**	100	5/6/2011 01:41 AM
1,3-Dichlorobenzene	ND		61	µg/Kg-dry	100	5/6/2011 01:41 AM
1,3-Dichloropropane	ND		61	µg/Kg-dry	100	5/6/2011 01:41 AM
1,4-Dichlorobenzene	ND		61	µg/Kg-dry	100	5/6/2011 01:41 AM
2,2-Dichloropropane	ND		61	µg/Kg-dry	100	5/6/2011 01:41 AM
2-Butanone	ND		920	µg/Kg-dry	100	5/6/2011 01:41 AM
2-Chlorotoluene	ND		61	µg/Kg-dry	100	5/6/2011 01:41 AM

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-43
Collection Date: 4/29/2011 12:30 PM

Work Order: 1104753
Lab ID: 1104753-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Hexanone	ND		610	µg/Kg-dry	100	5/6/2011 01:41 AM
2-Methylnaphthalene	**4,800**		**370**	**µg/Kg-dry**	100	5/6/2011 01:41 AM
4-Chlorotoluene	ND		250	µg/Kg-dry	100	5/6/2011 01:41 AM
4-Methyl-2-pentanone	ND		610	µg/Kg-dry	100	5/6/2011 01:41 AM
Acetone	ND	UJ	550	µg/Kg-dry	100	5/6/2011 01:41 AM
Acrylonitrile	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
Benzene	ND		61	µg/Kg-dry	100	5/6/2011 01:41 AM
Bromobenzene	ND		180	µg/Kg-dry	100	5/6/2011 01:41 AM
Bromochloromethane	ND		180	µg/Kg-dry	100	5/6/2011 01:41 AM
Bromodichloromethane	ND		180	µg/Kg-dry	100	5/6/2011 01:41 AM
Bromoform	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
Carbon disulfide	ND		180	µg/Kg-dry	100	5/6/2011 01:41 AM
Carbon tetrachloride	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
Chlorobenzene	ND		180	µg/Kg-dry	100	5/6/2011 01:41 AM
Chloroethane	ND		370	µg/Kg-dry	100	5/6/2011 01:41 AM
Chloroform	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
Chloromethane	ND	UJ	370	µg/Kg-dry	100	5/6/2011 01:41 AM
cis-1,2-Dichloroethene	ND		250	µg/Kg-dry	100	5/6/2011 01:41 AM
cis-1,3-Dichloropropene	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
Dibromochloromethane	ND		250	µg/Kg-dry	100	5/6/2011 01:41 AM
Dibromomethane	ND		250	µg/Kg-dry	100	5/6/2011 01:41 AM
Dichlorodifluoromethane	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
Diethyl ether	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
Diisopropyl ether	ND		610	µg/Kg-dry	100	5/6/2011 01:41 AM
Ethyl tert butyl ether	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
Ethylbenzene	**910**		**250**	**µg/Kg-dry**	100	5/6/2011 01:41 AM
Heptane	**410**		**120**	**µg/Kg-dry**	100	5/6/2011 01:41 AM
Hexachlorobutadiene	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
Hexachloroethane	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
Hexane	**410**		**370**	**µg/Kg-dry**	100	5/6/2011 01:41 AM
Iodomethane	ND		310	µg/Kg-dry	100	5/6/2011 01:41 AM
Isopropylbenzene	**1,300**		**120**	**µg/Kg-dry**	100	5/6/2011 01:41 AM
m,p-Xylene	**5,400**		**250**	**µg/Kg-dry**	100	5/6/2011 01:41 AM
Methyl tert-butyl ether	ND		180	µg/Kg-dry	100	5/6/2011 01:41 AM
Methylene chloride	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
n-Butylbenzene	ND		61	µg/Kg-dry	100	5/6/2011 01:41 AM
n-Propylbenzene	**2,600**		**250**	**µg/Kg-dry**	100	5/6/2011 01:41 AM
Naphthalene	**5,700**		**250**	**µg/Kg-dry**	100	5/6/2011 01:41 AM
o-Xylene	**720**		**120**	**µg/Kg-dry**	100	5/6/2011 01:41 AM
p-Isopropyltoluene	**4,700**		**120**	**µg/Kg-dry**	100	5/6/2011 01:41 AM

KA 5/17/11

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-43
Collection Date: 4/29/2011 12:30 PM

Work Order: 1104753
Lab ID: 1104753-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	**1,400**		**120**	**µg/Kg-dry**	100	5/6/2011 01:41 AM
Styrene	ND		180	µg/Kg-dry	100	5/6/2011 01:41 AM
tert-Amyl methyl ether	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
tert-Butyl alcohol	ND		610	µg/Kg-dry	100	5/6/2011 01:41 AM
tert-Butylbenzene	ND		180	µg/Kg-dry	100	5/6/2011 01:41 AM
Tetrachloroethene	ND		61	µg/Kg-dry	100	5/6/2011 01:41 AM
Tetrahydrofuran	ND		180	µg/Kg-dry	100	5/6/2011 01:41 AM
Toluene	**400**		**180**	**µg/Kg-dry**	100	5/6/2011 01:41 AM
trans-1,2-Dichloroethene	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
trans-1,3-Dichloropropene	ND		180	µg/Kg-dry	100	5/6/2011 01:41 AM KH
trans-1,4-Dichloro-2-butene	ND	UJ	430	µg/Kg-dry	100	5/6/2011 01:41 AM 5/17/11
Trichloroethene	ND		61	µg/Kg-dry	100	5/6/2011 01:41 AM
Trichlorofluoromethane	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
Vinyl acetate	ND		1,800	µg/Kg-dry	100	5/6/2011 01:41 AM
Vinyl chloride	ND		49	µg/Kg-dry	100	5/6/2011 01:41 AM
1,2-Dichloroethene, Total	ND		310	µg/Kg-dry	100	5/6/2011 01:41 AM
1,3-Dichloropropene, Total	ND		120	µg/Kg-dry	100	5/6/2011 01:41 AM
Xylenes, Total	**6,200**		**370**	**µg/Kg-dry**	100	5/6/2011 01:41 AM
Surr: 1,2-Dichloroethane-d4	*98.6*		*70-120*	*%REC*	500	5/6/2011 10:43 PM
Surr: 1,2-Dichloroethane-d4	*100*		*70-120*	*%REC*	100	5/6/2011 01:41 AM
Surr: 4-Bromofluorobenzene	*106*		*75-120*	*%REC*	500	5/6/2011 10:43 PM
Surr: 4-Bromofluorobenzene	*108*		*75-120*	*%REC*	100	5/6/2011 01:41 AM
Surr: Dibromofluoromethane	*106*		*85-115*	*%REC*	500	5/6/2011 10:43 PM
Surr: Dibromofluoromethane	*95.2*		*85-115*	*%REC*	100	5/6/2011 01:41 AM
Surr: Toluene-d8	*100*		*85-115*	*%REC*	100	5/6/2011 01:41 AM
Surr: Toluene-d8	*101*		*85-115*	*%REC*	500	5/6/2011 10:43 PM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**19**		**0.050**	**% of sample**	1	5/2/2011 08:42 AM

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-44
Collection Date: 4/29/2011 12:25 PM

Work Order: 1104753
Lab ID: 1104753-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **5/2/2011**	Analyst: **JD**
Aroclor 1016	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1221	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1232	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1242	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1248	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1254	**98**		**47**	**µg/Kg-dry**	1	5/2/2011 04:44 PM
Aroclor 1260	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1262	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1268	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Surr: Decachlorobiphenyl	*80.1*		*40-140*	*%REC*	1	5/2/2011 04:44 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **5/3/2011**	Analyst: **CES**
Arsenic	**3.0**		**0.20**	**mg/Kg-dry**	1	5/3/2011 05:14 PM
Lead	**51**	J	**0.20**	**mg/Kg-dry**	1	5/3/2011 05:14 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
1,1,1,2-Tetrachloroethane	ND		180	µg/Kg-dry	100	5/6/2011 03:02 AM
1,1,1-Trichloroethane	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
1,1,2,2-Tetrachloroethane	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
1,1,2-Trichloroethane	ND		61	µg/Kg-dry	100	5/6/2011 03:02 AM
1,1,2-Trichlorotrifluoroethane	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
1,1-Dichloroethane	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
1,1-Dichloroethene	ND		61	µg/Kg-dry	100	5/6/2011 03:02 AM
1,1-Dichloropropene	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
1,2,3-Trichlorobenzene	ND		240	µg/Kg-dry	100	5/6/2011 03:02 AM
1,2,3-Trichloropropane	ND		240	µg/Kg-dry	100	5/6/2011 03:02 AM
1,2,4-Trichlorobenzene	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
1,2,4-Trimethylbenzene	**44,000**		**1,200**	**µg/Kg-dry**	1000	5/6/2011 11:31 PM
1,2-Dibromo-3-chloropropane	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
1,2-Dibromoethane	ND		180	µg/Kg-dry	100	5/6/2011 03:02 AM
1,2-Dichlorobenzene	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
1,2-Dichloroethane	ND		61	µg/Kg-dry	100	5/6/2011 03:02 AM
1,2-Dichloropropane	ND		61	µg/Kg-dry	100	5/6/2011 03:02 AM
1,3,5-Trimethylbenzene	**15,000**		**1,200**	**µg/Kg-dry**	1000	5/6/2011 11:31 PM
1,3-Dichlorobenzene	ND		61	µg/Kg-dry	100	5/6/2011 03:02 AM
1,3-Dichloropropane	ND		61	µg/Kg-dry	100	5/6/2011 03:02 AM
1,4-Dichlorobenzene	ND		61	µg/Kg-dry	100	5/6/2011 03:02 AM
2,2-Dichloropropane	ND		61	µg/Kg-dry	100	5/6/2011 03:02 AM
2-Butanone	ND		910	µg/Kg-dry	100	5/6/2011 03:02 AM
2-Chlorotoluene	ND		61	µg/Kg-dry	100	5/6/2011 03:02 AM

KA 5/19/11

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-44
Collection Date: 4/29/2011 12:25 PM

Work Order: 1104753
Lab ID: 1104753-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Hexanone	ND		610	µg/Kg-dry	100	5/6/2011 03:02 AM
2-Methylnaphthalene	**27,000**		**3,600**	**µg/Kg-dry**	1000	5/6/2011 11:31 PM
4-Chlorotoluene	ND		240	µg/Kg-dry	100	5/6/2011 03:02 AM
4-Methyl-2-pentanone	ND		610	µg/Kg-dry	100	5/6/2011 03:02 AM
Acetone	ND	UJ	550	µg/Kg-dry	100	5/6/2011 03:02 AM
Acrylonitrile	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
Benzene	**140**		**61**	**µg/Kg-dry**	100	5/6/2011 03:02 AM
Bromobenzene	ND		180	µg/Kg-dry	100	5/6/2011 03:02 AM
Bromochloromethane	ND		180	µg/Kg-dry	100	5/6/2011 03:02 AM
Bromodichloromethane	ND		180	µg/Kg-dry	100	5/6/2011 03:02 AM
Bromoform	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
Carbon disulfide	ND		180	µg/Kg-dry	100	5/6/2011 03:02 AM
Carbon tetrachloride	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
Chlorobenzene	ND		180	µg/Kg-dry	100	5/6/2011 03:02 AM
Chloroethane	ND		360	µg/Kg-dry	100	5/6/2011 03:02 AM
Chloroform	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
Chloromethane	ND	UJ	360	µg/Kg-dry	100	5/6/2011 03:02 AM
cis-1,2-Dichloroethene	ND		240	µg/Kg-dry	100	5/6/2011 03:02 AM
cis-1,3-Dichloropropene	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
Dibromochloromethane	ND		240	µg/Kg-dry	100	5/6/2011 03:02 AM
Dibromomethane	ND		240	µg/Kg-dry	100	5/6/2011 03:02 AM
Dichlorodifluoromethane	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
Diethyl ether	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
Diisopropyl ether	ND		610	µg/Kg-dry	100	5/6/2011 03:02 AM
Ethyl tert butyl ether	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
Ethylbenzene	**9,100**		**240**	**µg/Kg-dry**	100	5/6/2011 03:02 AM
Heptane	**1,100**		**120**	**µg/Kg-dry**	100	5/6/2011 03:02 AM
Hexachlorobutadiene	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
Hexachloroethane	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
Hexane	**1,200**		**360**	**µg/Kg-dry**	100	5/6/2011 03:02 AM
Iodomethane	ND		300	µg/Kg-dry	100	5/6/2011 03:02 AM
Isopropylbenzene	**1,900**		**120**	**µg/Kg-dry**	100	5/6/2011 03:02 AM
m,p-Xylene	**48,000**		**2,400**	**µg/Kg-dry**	1000	5/6/2011 11:31 PM
Methyl tert-butyl ether	ND		180	µg/Kg-dry	100	5/6/2011 03:02 AM
Methylene chloride	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
n-Butylbenzene	ND		61	µg/Kg-dry	100	5/6/2011 03:02 AM
n-Propylbenzene	**3,700**		**240**	**µg/Kg-dry**	100	5/6/2011 03:02 AM
Naphthalene	**25,000**		**2,400**	**µg/Kg-dry**	1000	5/6/2011 11:31 PM
o-Xylene	**12,000**		**1,200**	**µg/Kg-dry**	1000	5/6/2011 11:31 PM
p-Isopropyltoluene	**43,000**		**1,200**	**µg/Kg-dry**	1000	5/6/2011 11:31 PM

KH 5/17/11

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-44
Collection Date: 4/29/2011 12:25 PM

Work Order: 1104753
Lab ID: 1104753-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	**2,400**		**120**	**µg/Kg-dry**	100	5/6/2011 03:02 AM
Styrene	ND		180	µg/Kg-dry	100	5/6/2011 03:02 AM
tert-Amyl methyl ether	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
tert-Butyl alcohol	ND		610	µg/Kg-dry	100	5/6/2011 03:02 AM
tert-Butylbenzene	ND		180	µg/Kg-dry	100	5/6/2011 03:02 AM
Tetrachloroethene	ND		61	µg/Kg-dry	100	5/6/2011 03:02 AM
Tetrahydrofuran	ND		180	µg/Kg-dry	100	5/6/2011 03:02 AM
Toluene	**6,200**		**180**	**µg/Kg-dry**	100	5/6/2011 03:02 AM
trans-1,2-Dichloroethene	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
trans-1,3-Dichloropropene	ND		180	µg/Kg-dry	100	5/6/2011 03:02 AM KH
trans-1,4-Dichloro-2-butene	ND	UJ	430	µg/Kg-dry	100	5/6/2011 03:02 AM 5/17/11
Trichloroethene	**140**		**61**	**µg/Kg-dry**	100	5/6/2011 03:02 AM
Trichlorofluoromethane	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
Vinyl acetate	ND		1,800	µg/Kg-dry	100	5/6/2011 03:02 AM
Vinyl chloride	ND		49	µg/Kg-dry	100	5/6/2011 03:02 AM
1,2-Dichloroethene, Total	ND		300	µg/Kg-dry	100	5/6/2011 03:02 AM
1,3-Dichloropropene, Total	ND		120	µg/Kg-dry	100	5/6/2011 03:02 AM
Xylenes, Total	**60,000**		**3,600**	**µg/Kg-dry**	1000	5/6/2011 11:31 PM
Surr: 1,2-Dichloroethane-d4	*97.0*		*70-120*	*%REC*	1000	5/6/2011 11:31 PM
Surr: 1,2-Dichloroethane-d4	*99.8*		*70-120*	*%REC*	100	5/6/2011 03:02 AM
Surr: 4-Bromofluorobenzene	*108*		*75-120*	*%REC*	1000	5/6/2011 11:31 PM
Surr: 4-Bromofluorobenzene	*107*		*75-120*	*%REC*	100	5/6/2011 03:02 AM
Surr: Dibromofluoromethane	*106*		*85-115*	*%REC*	1000	5/6/2011 11:31 PM
Surr: Dibromofluoromethane	*94.6*		*85-115*	*%REC*	100	5/6/2011 03:02 AM
Surr: Toluene-d8	*100*		*85-115*	*%REC*	100	5/6/2011 03:02 AM
Surr: Toluene-d8	*99.9*		*85-115*	*%REC*	1000	5/6/2011 11:31 PM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**18**		**0.050**	**% of sample**	1	5/2/2011 08:42 AM

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-45
Collection Date: 4/29/2011 12:20 PM

Work Order: 1104753
Lab ID: 1104753-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **5/2/2011**	Analyst: **JD**
Aroclor 1016	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1221	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1232	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1242	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1248	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1254	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1260	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1262	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1268	ND		47	µg/Kg-dry	1	5/2/2011 04:44 PM
Surr: Decachlorobiphenyl	*97.1*		*40-140*	*%REC*	1	5/2/2011 04:44 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **5/3/2011**	Analyst: **CES**
Arsenic	**0.95**		**0.19**	**mg/Kg-dry**	1	5/4/2011 01:21 PM
Lead	**2.0**	J	**0.19**	**mg/Kg-dry**	1	5/4/2011 01:21 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
1,1,1,2-Tetrachloroethane	ND		190	µg/Kg-dry	100	5/6/2011 02:08 AM
1,1,1-Trichloroethane	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
1,1,2,2-Tetrachloroethane	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
1,1,2-Trichloroethane	ND		62	µg/Kg-dry	100	5/6/2011 02:08 AM
1,1,2-Trichlorotrifluoroethane	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
1,1-Dichloroethane	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
1,1-Dichloroethene	ND		62	µg/Kg-dry	100	5/6/2011 02:08 AM
1,1-Dichloropropene	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
1,2,3-Trichlorobenzene	ND		250	µg/Kg-dry	100	5/6/2011 02:08 AM
1,2,3-Trichloropropane	ND		250	µg/Kg-dry	100	5/6/2011 02:08 AM
1,2,4-Trichlorobenzene	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
1,2,4-Trimethylbenzene	**4,800**		**120**	**µg/Kg-dry**	100	5/6/2011 02:08 AM
1,2-Dibromo-3-chloropropane	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
1,2-Dibromoethane	ND		190	µg/Kg-dry	100	5/6/2011 02:08 AM
1,2-Dichlorobenzene	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
1,2-Dichloroethane	ND		62	µg/Kg-dry	100	5/6/2011 02:08 AM
1,2-Dichloropropane	ND		62	µg/Kg-dry	100	5/6/2011 02:08 AM
1,3,5-Trimethylbenzene	**1,900**		**120**	**µg/Kg-dry**	100	5/6/2011 02:08 AM
1,3-Dichlorobenzene	ND		62	µg/Kg-dry	100	5/6/2011 02:08 AM
1,3-Dichloropropane	ND		62	µg/Kg-dry	100	5/6/2011 02:08 AM
1,4-Dichlorobenzene	ND		62	µg/Kg-dry	100	5/6/2011 02:08 AM
2,2-Dichloropropane	ND		62	µg/Kg-dry	100	5/6/2011 02:08 AM
2-Butanone	ND		930	µg/Kg-dry	100	5/6/2011 02:08 AM
2-Chlorotoluene	ND		62	µg/Kg-dry	100	5/6/2011 02:08 AM

KH 5/17/11

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-45
Collection Date: 4/29/2011 12:20 PM

Work Order: 1104753
Lab ID: 1104753-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Hexanone	ND		620	µg/Kg-dry	100	5/6/2011 02:08 AM
2-Methylnaphthalene	**11,000**		**370**	**µg/Kg-dry**	100	5/6/2011 02:08 AM
4-Chlorotoluene	ND		250	µg/Kg-dry	100	5/6/2011 02:08 AM
4-Methyl-2-pentanone	ND		620	µg/Kg-dry	100	5/6/2011 02:08 AM
Acetone	ND	UJ	560	µg/Kg-dry	100	5/6/2011 02:08 AM
Acrylonitrile	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
Benzene	**140**		**62**	**µg/Kg-dry**	100	5/6/2011 02:08 AM
Bromobenzene	ND		190	µg/Kg-dry	100	5/6/2011 02:08 AM
Bromochloromethane	ND		190	µg/Kg-dry	100	5/6/2011 02:08 AM
Bromodichloromethane	ND		190	µg/Kg-dry	100	5/6/2011 02:08 AM
Bromoform	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
Carbon disulfide	ND		190	µg/Kg-dry	100	5/6/2011 02:08 AM
Carbon tetrachloride	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
Chlorobenzene	ND		190	µg/Kg-dry	100	5/6/2011 02:08 AM
Chloroethane	ND		370	µg/Kg-dry	100	5/6/2011 02:08 AM
Chloroform	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
Chloromethane	ND	UJ	370	µg/Kg-dry	100	5/6/2011 02:08 AM
cis-1,2-Dichloroethene	ND		250	µg/Kg-dry	100	5/6/2011 02:08 AM
cis-1,3-Dichloropropene	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
Dibromochloromethane	ND		250	µg/Kg-dry	100	5/6/2011 02:08 AM
Dibromomethane	ND		250	µg/Kg-dry	100	5/6/2011 02:08 AM
Dichlorodifluoromethane	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
Diethyl ether	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
Diisopropyl ether	ND		620	µg/Kg-dry	100	5/6/2011 02:08 AM
Ethyl tert butyl ether	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
Ethylbenzene	**1,900**		**250**	**µg/Kg-dry**	100	5/6/2011 02:08 AM
Heptane	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
Hexachlorobutadiene	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
Hexachloroethane	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
Hexane	ND		370	µg/Kg-dry	100	5/6/2011 02:08 AM
Iodomethane	ND		310	µg/Kg-dry	100	5/6/2011 02:08 AM
Isopropylbenzene	**320**		**120**	**µg/Kg-dry**	100	5/6/2011 02:08 AM
m,p-Xylene	**9,000**		**250**	**µg/Kg-dry**	100	5/6/2011 02:08 AM
Methyl tert-butyl ether	ND		190	µg/Kg-dry	100	5/6/2011 02:08 AM
Methylene chloride	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
n-Butylbenzene	ND		62	µg/Kg-dry	100	5/6/2011 02:08 AM
n-Propylbenzene	**500**		**250**	**µg/Kg-dry**	100	5/6/2011 02:08 AM
Naphthalene	**7,300**		**250**	**µg/Kg-dry**	100	5/6/2011 02:08 AM
o-Xylene	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
p-Isopropyltoluene	**3,000**		**120**	**µg/Kg-dry**	100	5/6/2011 02:08 AM

KH 5/12/11

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-45
Collection Date: 4/29/2011 12:20 PM

Work Order: 1104753
Lab ID: 1104753-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	**210**		**120**	**µg/Kg-dry**	100	5/6/2011 02:08 AM
Styrene	ND		190	µg/Kg-dry	100	5/6/2011 02:08 AM
tert-Amyl methyl ether	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
tert-Butyl alcohol	ND		620	µg/Kg-dry	100	5/6/2011 02:08 AM
tert-Butylbenzene	ND		190	µg/Kg-dry	100	5/6/2011 02:08 AM
Tetrachloroethene	ND		62	µg/Kg-dry	100	5/6/2011 02:08 AM
Tetrahydrofuran	ND		190	µg/Kg-dry	100	5/6/2011 02:08 AM
Toluene	**330**		**190**	**µg/Kg-dry**	100	5/6/2011 02:08 AM
trans-1,2-Dichloroethene	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
trans-1,3-Dichloropropene	ND		190	µg/Kg-dry	100	5/6/2011 02:08 AM KH
trans-1,4-Dichloro-2-butene	ND	UJ	430	µg/Kg-dry	100	5/6/2011 02:08 AM 5/17/11
Trichloroethene	ND		62	µg/Kg-dry	100	5/6/2011 02:08 AM
Trichlorofluoromethane	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
Vinyl acetate	ND		1,900	µg/Kg-dry	100	5/6/2011 02:08 AM
Vinyl chloride	ND		49	µg/Kg-dry	100	5/6/2011 02:08 AM
1,2-Dichloroethene, Total	ND		310	µg/Kg-dry	100	5/6/2011 02:08 AM
1,3-Dichloropropene, Total	ND		120	µg/Kg-dry	100	5/6/2011 02:08 AM
Xylenes, Total	**9,100**		**370**	**µg/Kg-dry**	100	5/6/2011 02:08 AM
Surr: 1,2-Dichloroethane-d4	*98.1*		*70-120*	*%REC*	100	5/6/2011 02:08 AM
Surr: 4-Bromofluorobenzene	*103*		*75-120*	*%REC*	100	5/6/2011 02:08 AM
Surr: Dibromofluoromethane	*93.1*		*85-115*	*%REC*	100	5/6/2011 02:08 AM
Surr: Toluene-d8	*99.4*		*85-115*	*%REC*	100	5/6/2011 02:08 AM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**19**		**0.050**	**% of sample**	1	5/2/2011 08:42 AM

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-MB-06
Collection Date: 4/29/2011

Work Order: 1104753
Lab ID: 1104753-07
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **BG**
1,1,1,2-Tetrachloroethane	ND		150	µg/Kg	100	5/7/2011 10:51 AM
1,1,1-Trichloroethane	ND		100	µg/Kg	100	5/7/2011 10:51 AM
1,1,2,2-Tetrachloroethane	ND		100	µg/Kg	100	5/7/2011 10:51 AM
1,1,2-Trichloroethane	ND		50	µg/Kg	100	5/7/2011 10:51 AM
1,1,2-Trichlorotrifluoroethane	ND		100	µg/Kg	100	5/7/2011 10:51 AM
1,1-Dichloroethane	ND		100	µg/Kg	100	5/7/2011 10:51 AM
1,1-Dichloroethene	ND		50	µg/Kg	100	5/7/2011 10:51 AM
1,1-Dichloropropene	ND		100	µg/Kg	100	5/7/2011 10:51 AM
1,2,3-Trichlorobenzene	ND		200	µg/Kg	100	5/7/2011 10:51 AM
1,2,3-Trichloropropane	ND		200	µg/Kg	100	5/7/2011 10:51 AM
1,2,4-Trichlorobenzene	ND		100	µg/Kg	100	5/7/2011 10:51 AM
1,2,4-Trimethylbenzene	ND		100	µg/Kg	100	5/7/2011 10:51 AM
1,2-Dibromo-3-chloropropane	ND		100	µg/Kg	100	5/7/2011 10:51 AM
1,2-Dibromoethane	ND		150	µg/Kg	100	5/7/2011 10:51 AM
1,2-Dichlorobenzene	ND		100	µg/Kg	100	5/7/2011 10:51 AM
1,2-Dichloroethane	ND		50	µg/Kg	100	5/7/2011 10:51 AM
1,2-Dichloropropane	ND		50	µg/Kg	100	5/7/2011 10:51 AM
1,3,5-Trimethylbenzene	ND		100	µg/Kg	100	5/7/2011 10:51 AM
1,3-Dichlorobenzene	ND		50	µg/Kg	100	5/7/2011 10:51 AM
1,3-Dichloropropane	ND		50	µg/Kg	100	5/7/2011 10:51 AM
1,4-Dichlorobenzene	ND		50	µg/Kg	100	5/7/2011 10:51 AM
2,2-Dichloropropane	ND		50	µg/Kg	100	5/7/2011 10:51 AM
2-Butanone	ND		750	µg/Kg	100	5/7/2011 10:51 AM
2-Chlorotoluene	ND		50	µg/Kg	100	5/7/2011 10:51 AM
2-Hexanone	ND		500	µg/Kg	100	5/7/2011 10:51 AM
2-Methylnaphthalene	ND		300	µg/Kg	100	5/7/2011 10:51 AM
4-Chlorotoluene	ND		200	µg/Kg	100	5/7/2011 10:51 AM
4-Methyl-2-pentanone	ND		500	µg/Kg	100	5/7/2011 10:51 AM KH
Acetone	ND	UJ	450	µg/Kg	100	5/7/2011 10:51 AM 5/17/11
Acrylonitrile	ND		100	µg/Kg	100	5/7/2011 10:51 AM
Benzene	ND		50	µg/Kg	100	5/7/2011 10:51 AM
Bromobenzene	ND		150	µg/Kg	100	5/7/2011 10:51 AM
Bromochloromethane	ND		150	µg/Kg	100	5/7/2011 10:51 AM
Bromodichloromethane	ND		150	µg/Kg	100	5/7/2011 10:51 AM
Bromoform	ND		100	µg/Kg	100	5/7/2011 10:51 AM
Carbon disulfide	ND		150	µg/Kg	100	5/7/2011 10:51 AM
Carbon tetrachloride	ND		100	µg/Kg	100	5/7/2011 10:51 AM
Chlorobenzene	ND		150	µg/Kg	100	5/7/2011 10:51 AM
Chloroethane	ND		300	µg/Kg	100	5/7/2011 10:51 AM

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-MB-06
Collection Date: 4/29/2011

Work Order: 1104753
Lab ID: 1104753-07
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	ND		100	µg/Kg	100	5/7/2011 10:51 AM
Chloromethane	ND	UJ	300	µg/Kg	100	5/7/2011 10:51 AM
cis-1,2-Dichloroethene	ND		200	µg/Kg	100	5/7/2011 10:51 AM
cis-1,3-Dichloropropene	ND		100	µg/Kg	100	5/7/2011 10:51 AM
Dibromochloromethane	ND		200	µg/Kg	100	5/7/2011 10:51 AM
Dibromomethane	ND		200	µg/Kg	100	5/7/2011 10:51 AM
Dichlorodifluoromethane	ND		100	µg/Kg	100	5/7/2011 10:51 AM
Diethyl ether	ND		100	µg/Kg	100	5/7/2011 10:51 AM
Diisopropyl ether	ND		500	µg/Kg	100	5/7/2011 10:51 AM
Ethyl tert butyl ether	ND		100	µg/Kg	100	5/7/2011 10:51 AM
Ethylbenzene	ND		200	µg/Kg	100	5/7/2011 10:51 AM
Heptane	ND		100	µg/Kg	100	5/7/2011 10:51 AM
Hexachlorobutadiene	ND		100	µg/Kg	100	5/7/2011 10:51 AM
Hexachloroethane	ND		100	µg/Kg	100	5/7/2011 10:51 AM
Hexane	ND		300	µg/Kg	100	5/7/2011 10:51 AM
Iodomethane	ND		250	µg/Kg	100	5/7/2011 10:51 AM
Isopropylbenzene	ND		100	µg/Kg	100	5/7/2011 10:51 AM
m,p-Xylene	ND		200	µg/Kg	100	5/7/2011 10:51 AM
Methyl tert-butyl ether	ND		150	µg/Kg	100	5/7/2011 10:51 AM
Methylene chloride	ND		100	µg/Kg	100	5/7/2011 10:51 AM
n-Butylbenzene	ND		50	µg/Kg	100	5/7/2011 10:51 AM
n-Propylbenzene	ND		200	µg/Kg	100	5/7/2011 10:51 AM
Naphthalene	ND		200	µg/Kg	100	5/7/2011 10:51 AM
o-Xylene	ND		100	µg/Kg	100	5/7/2011 10:51 AM
p-Isopropyltoluene	ND		100	µg/Kg	100	5/7/2011 10:51 AM
sec-Butylbenzene	ND		100	µg/Kg	100	5/7/2011 10:51 AM
Styrene	ND		150	µg/Kg	100	5/7/2011 10:51 AM
tert-Amyl methyl ether	ND		100	µg/Kg	100	5/7/2011 10:51 AM
tert-Butyl alcohol	ND		500	µg/Kg	100	5/7/2011 10:51 AM
tert-Butylbenzene	ND		150	µg/Kg	100	5/7/2011 10:51 AM
Tetrachloroethene	ND		50	µg/Kg	100	5/7/2011 10:51 AM
Tetrahydrofuran	ND		150	µg/Kg	100	5/7/2011 10:51 AM
Toluene	ND		150	µg/Kg	100	5/7/2011 10:51 AM
trans-1,2-Dichloroethene	ND		100	µg/Kg	100	5/7/2011 10:51 AM
trans-1,3-Dichloropropene	ND		150	µg/Kg	100	5/7/2011 10:51 AM
trans-1,4-Dichloro-2-butene	ND		350	µg/Kg	100	5/7/2011 10:51 AM
Trichloroethene	ND		50	µg/Kg	100	5/7/2011 10:51 AM
Trichlorofluoromethane	ND		100	µg/Kg	100	5/7/2011 10:51 AM
Vinyl acetate	ND		1,500	µg/Kg	100	5/7/2011 10:51 AM
Vinyl chloride	ND		40	µg/Kg	100	5/7/2011 10:51 AM

KA 5/17/11

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-MB-06
Collection Date: 4/29/2011

Work Order: 1104753
Lab ID: 1104753-07
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethene, Total	ND		250	µg/Kg	100	5/7/2011 10:51 AM
1,3-Dichloropropene, Total	ND		100	µg/Kg	100	5/7/2011 10:51 AM
Xylenes, Total	ND		300	µg/Kg	100	5/7/2011 10:51 AM
Surr: 1,2-Dichloroethane-d4	*97.4*		*70-120*	*%REC*	100	5/7/2011 10:51 AM
Surr: 4-Bromofluorobenzene	*97.9*		*75-120*	*%REC*	100	5/7/2011 10:51 AM
Surr: Dibromofluoromethane	*106*		*85-115*	*%REC*	100	5/7/2011 10:51 AM
Surr: Toluene-d8	*99.4*		*85-115*	*%REC*	100	5/7/2011 10:51 AM

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

ALS Group USA, Corp

Date: 17-May-11

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **33090a** Instrument ID **GC4** Method: **SW8082**

MBLK Sample ID: **PBLKS1-33090-33090a** Units: **µg/Kg** Analysis Date: **5/2/2011 04:44 PM**

Client ID: Run ID: **GC4_110502A** SeqNo: **1615820** Prep Date: **5/2/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	40								
Aroclor 1221	ND	40								
Aroclor 1232	ND	40								
Aroclor 1242	ND	40								
Aroclor 1248	ND	40								
Aroclor 1254	ND	40								
Aroclor 1260	ND	40								
Aroclor 1262	ND	40								
Aroclor 1268	ND	40								
Surr: Decachlorobiphenyl	*27.33*	0	*33.3*	0	*82.1*	*50-130*	0			

LCS Sample ID: **PLCSS1-33090-33090a** Units: **µg/Kg** Analysis Date: **5/2/2011 04:44 PM**

Client ID: Run ID: **GC4_110502A** SeqNo: **1615822** Prep Date: **5/2/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	826.3	40	833	0	99.2	50-130	0			
Aroclor 1260	789	40	833	0	94.7	50-130	0			
Surr: Decachlorobiphenyl	*31*	0	*33.3*	0	*93.1*	*50-130*	0			

LCSD Sample ID: **PLCSDS1-33090-33090a** Units: **µg/Kg** Analysis Date: **5/2/2011 04:44 PM**

Client ID: Run ID: **GC4_110502A** SeqNo: **1615821** Prep Date: **5/2/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	817.3	40	833	0	98.1	50-130	826.3	1.1	25	
Aroclor 1260	786.3	40	833	0	94.4	50-130	789	0.339	25	
Surr: Decachlorobiphenyl	*25.67*	0	*33.3*	0	*77.1*	*50-130*	31	*18.8*	*25*	

MS Sample ID: **1104742-01B MS** Units: **µg/Kg** Analysis Date: **5/2/2011 04:44 PM**

Client ID: Run ID: **GC4_110502A** SeqNo: **1622504** Prep Date: **5/2/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	718.2	39	808.4	0	88.8	40-140	0			
Aroclor 1260	751.2	39	808.4	0	92.9	40-140	0			
Surr: Decachlorobiphenyl	*29.44*	0	*32.32*	0	*91.1*	*40-140*	0			

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **33090a** Instrument ID **GC4** Method: **SW8082**

MSD Sample ID: **1104742-01B MSD** Units: **µg/Kg** Analysis Date: **5/2/2011 04:44 PM**

Client ID: Run ID: **GC4_110502A** SeqNo: **1622505** Prep Date: **5/2/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	737.1	40	826.1	0	89.2	40-140	718.2	2.61	50	
Aroclor 1260	750.4	40	826.1	0	90.8	40-140	751.2	0.107	50	
Surr: Decachlorobiphenyl	*30.08*	0	*33.02*	0	*91.1*	*40-140*	29.44	*2.16*	*50*	

The following samples were analyzed in this batch:

1104753-01B	1104753-02B	1104753-03B
1104753-04B	1104753-05B	1104753-06B

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **33108** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-33108-33108** Units: **mg/Kg** Analysis Date: **5/3/2011 01:21 PM**
Client ID: Run ID: **ICPMS1_110503A** SeqNo: **1615882** Prep Date: **5/3/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Lead	0.01142	0.25								J

LCS Sample ID: **LCS-33108-33108** Units: **mg/Kg** Analysis Date: **5/3/2011 01:27 PM**
Client ID: Run ID: **ICPMS1_110503A** SeqNo: **1615883** Prep Date: **5/3/2011** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.45	0.50	5	0	89	80-120	0			
Lead	4.54	0.50	5	0	90.8	80-120	0			

LCSD Sample ID: **LCSD-33108-33108** Units: **mg/Kg** Analysis Date: **5/3/2011 01:33 PM**
Client ID: Run ID: **ICPMS1_110503A** SeqNo: **1615884** Prep Date: **5/3/2011** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.506	0.50	5	0	90.1	80-120	4.45	1.25	20	
Lead	4.601	0.50	5	0	92	80-120	4.54	1.33	20	

MS Sample ID: **1104738-09BMS** Units: **mg/Kg** Analysis Date: **5/3/2011 02:03 PM**
Client ID: Run ID: **ICPMS1_110503A** SeqNo: **1615889** Prep Date: **5/3/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	6.503	0.37	7.491	0.6235	78.5	80-120	0			S
Lead	7.94	0.37	7.491	1.539	85.5	80-120	0			

MSD Sample ID: **1104738-09BMSD** Units: **mg/Kg** Analysis Date: **5/3/2011 02:09 PM**
Client ID: Run ID: **ICPMS1_110503A** SeqNo: **1615891** Prep Date: **5/3/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	6.574	0.38	7.53	0.6235	79	80-120	6.503	1.08	25	S
Lead	8.215	0.38	7.53	1.539	88.7	80-120	7.94	3.41	25	

The following samples were analyzed in this batch:

1104753-01B	1104753-02B	1104753-03B
1104753-04B	1104753-05B	1104753-06B

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89778** Instrument ID **VMS8** Method: **SW8260**

MBLK Sample ID: **VBLKW2-110505-R89778** Units: **µg/L** Analysis Date: **5/5/2011 07:50 PM**

Client ID: Run ID: **VMS8_110505A** SeqNo: **1618683** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1,2-Trichlorotrifluoroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,1-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	3.0								
1,2,3-Trichloropropane	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	1.0								
1,2-Dibromoethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	2.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,3-Dichlorobenzene	ND	2.0								
1,3-Dichloropropane	ND	1.0								
1,4-Dichlorobenzene	ND	2.0								
2,2-Dichloropropane	ND	1.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	2.0								
2-Hexanone	ND	5.0								
2-Methylnaphthalene	ND	10								
4-Chlorotoluene	ND	1.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	20								
Acrylonitrile	ND	1.0								
Benzene	ND	1.0								
Bromobenzene	ND	1.0								
Bromochloromethane	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Carbon disulfide	ND	2.5								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89778** Instrument ID **VMS8** Method: **SW8260**

cis-1,3-Dichloropropene	ND	1.0						
Dibromochloromethane	ND	1.0						
Dibromomethane	ND	1.0						
Dichlorodifluoromethane	ND	1.0						
Diethyl ether	ND	10						
Diisopropyl ether	ND	5.0						
Ethyl tert butyl ether	ND	5.0						
Ethylbenzene	ND	1.0						
Hexachlorobutadiene	ND	5.0						
Hexachloroethane	ND	1.0						
Hexane	ND	5.0						
Iodomethane	ND	5.0						
Isopropylbenzene	ND	1.0						
m,p-Xylene	ND	2.0						
Methyl tert-butyl ether	ND	5.0						
Methylene chloride	ND	5.0						
n-Butylbenzene	ND	1.0						
n-Propylbenzene	ND	1.0						
Naphthalene	1.26	5.0						J
o-Xylene	ND	1.0						
p-Isopropyltoluene	ND	2.0						
sec-Butylbenzene	ND	2.0						
Styrene	ND	1.0						
tert-Butyl alcohol	ND	50						
tert-Butylbenzene	ND	2.0						
Tetrachloroethene	ND	2.0						
Tetrahydrofuran	ND	10						
Toluene	ND	1.0						
trans-1,2-Dichloroethene	ND	1.0						
trans-1,3-Dichloropropene	ND	1.0						
trans-1,4-Dichloro-2-butene	ND	5.0						
Trichloroethene	ND	1.0						
Trichlorofluoromethane	ND	1.0						
Vinyl acetate	ND	1.0						
Vinyl chloride	ND	1.0						
1,2-Dichloroethene, Total	ND	2.0						
1,3-Dichloropropene, Total	ND	2.0						
Xylenes, Total	ND	2.0						
Surr: 1,2-Dichloroethane-d4	*100.6*	0	*100*	0	*101*	*70-120*	0	
Surr: 4-Bromofluorobenzene	*98.26*	0	*100*	0	*98.3*	*75-120*	0	
Surr: Dibromofluoromethane	*99.93*	0	*100*	0	*99.9*	*85-115*	0	
Surr: Toluene-d8	*99.39*	0	*100*	0	*99.4*	*85-120*	0	

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89778** Instrument ID **VMS8** Method: **SW8260**

LCS Sample ID: **VLCSW1-110505-R89778** Units: **µg/L** Analysis Date: **5/5/2011 06:29 PM**

Client ID: Run ID: **VMS8_110505A** SeqNo: **1618681** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.4	1.0	20	0	102	80-130	0			
1,1,1-Trichloroethane	20.91	1.0	20	0	105	65-130	0			
1,1,2,2-Tetrachloroethane	23.24	1.0	20	0	116	65-130	0			
1,1,2-Trichloroethane	22.52	1.0	20	0	113	75-125	0			
1,1-Dichloroethane	22.35	1.0	20	0	112	70-135	0			
1,1-Dichloroethene	23.36	1.0	20	0	117	70-130	0			
1,1-Dichloropropene	21.05	1.0	20	0	105	75-130	0			
1,2,3-Trichlorobenzene	25.32	3.0	20	0	127	55-140	0			
1,2,3-Trichloropropane	23.08	1.0	20	0	115	75-125	0			
1,2,4-Trichlorobenzene	23.42	1.0	20	0	117	65-135	0			
1,2,4-Trimethylbenzene	23.59	1.0	20	0	118	75-130	0			
1,2-Dibromo-3-chloropropane	23.03	1.0	20	0	115	50-130	0			
1,2-Dibromoethane	20.73	1.0	20	0	104	80-120	0			
1,2-Dichlorobenzene	22.75	1.0	20	0	114	70-120	0			
1,2-Dichloroethane	22.28	1.0	20	0	111	70-130	0			
1,2-Dichloropropane	22.83	2.0	20	0	114	75-125	0			
1,3,5-Trimethylbenzene	23.35	1.0	20	0	117	75-130	0			
1,3-Dichlorobenzene	22.96	2.0	20	0	115	75-125	0			
1,3-Dichloropropane	22.25	1.0	20	0	111	75-125	0			
1,4-Dichlorobenzene	22.84	2.0	20	0	114	75-125	0			
2,2-Dichloropropane	20.77	1.0	20	0	104	70-135	0			
2-Butanone	15.92	5.0	20	0	79.6	30-150	0			
2-Chlorotoluene	22.97	2.0	20	0	115	75-125	0			
2-Hexanone	20.71	5.0	20	0	104	55-130	0			
4-Chlorotoluene	22.91	1.0	20	0	115	75-135	0			
4-Methyl-2-pentanone	27.47	5.0	20	0	137	60-135	0			S
Acetone	22.27	20	20	0	111	40-140	0			
Acrylonitrile	21.85	1.0	20	0	109	70-135	0			
Benzene	22.68	1.0	20	0	113	80-120	0			
Bromobenzene	22.39	1.0	20	0	112	75-125	0			
Bromochloromethane	22.85	1.0	20	0	114	65-130	0			
Bromodichloromethane	21.95	1.0	20	0	110	75-120	0			
Bromoform	21.93	1.0	20	0	110	70-130	0			
Carbon disulfide	25.27	2.5	20	0	126	35-165	0			
Carbon tetrachloride	22.76	1.0	20	0	114	65-140	0			
Chlorobenzene	22.48	1.0	20	0	112	80-120	0			
Chloroethane	19.94	1.0	20	0	99.7	60-135	0			
Chloroform	22.51	1.0	20	0	113	65-135	0			
Chloromethane	18	1.0	20	0	90	70-125	0			
cis-1,2-Dichloroethene	22.98	1.0	20	0	115	70-125	0			
cis-1,3-Dichloropropene	22.02	1.0	20	0	110	70-130	0			
Dibromochloromethane	22.04	1.0	20	0	110	60-135	0			

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89778** Instrument ID **VMS8** Method: **SW8260**

Dibromomethane	22.64	1.0	20	0	113	75-125	0
Dichlorodifluoromethane	18.63	1.0	20	0	93.2	30-155	0
Ethylbenzene	23.01	1.0	20	0	115	75-125	0
Hexachlorobutadiene	26.46	5.0	20	0	132	50-140	0
Hexachloroethane	20.66	1.0	20	0	103	70-135	0
Iodomethane	21.86	5.0	20	0	109	70-135	0
Isopropylbenzene	21.09	1.0	20	0	105	75-125	0
m,p-Xylene	46.53	2.0	40	0	116	75-130	0
Methyl tert-butyl ether	20.82	5.0	20	0	104	65-125	0
Methylene chloride	20.5	5.0	20	0	102	55-140	0
n-Butylbenzene	24.55	1.0	20	0	123	70-135	0
n-Propylbenzene	23.16	1.0	20	0	116	70-130	0
Naphthalene	24.96	5.0	20	0	125	55-140	0
o-Xylene	23.19	1.0	20	0	116	80-120	0
p-Isopropyltoluene	23.6	2.0	20	0	118	75-130	0
sec-Butylbenzene	23.87	2.0	20	0	119	70-125	0
Styrene	20.83	1.0	20	0	104	65-135	0
tert-Butylbenzene	23.83	2.0	20	0	119	70-130	0
Tetrachloroethene	22.92	2.0	20	0	115	45-150	0
Tetrahydrofuran	20.14	10	20	0	101	70-135	0
Toluene	22.02	1.0	20	0	110	75-120	0
trans-1,2-Dichloroethene	23.69	1.0	20	0	118	60-140	0
trans-1,3-Dichloropropene	22.07	1.0	20	0	110	55-140	0
trans-1,4-Dichloro-2-butene	19.63	5.0	20	0	98.2	70-135	0
Trichloroethene	22.91	1.0	20	0	115	70-125	0
Trichlorofluoromethane	16.74	1.0	20	0	83.7	60-145	0
Vinyl chloride	21.54	1.0	20	0	108	50-145	0
Xylenes, Total	69.72	2.0	60	0	116	75-130	0
Surr: 1,2-Dichloroethane-d4	*101.7*	0	*100*	0	*102*	*70-120*	0
Surr: 4-Bromofluorobenzene	*99.99*	0	*100*	0	*100*	*75-120*	0
Surr: Dibromofluoromethane	*102.2*	0	*100*	0	*102*	*85-115*	0
Surr: Toluene-d8	*99.74*	0	*100*	0	*99.7*	*85-120*	0

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89778** Instrument ID **VMS8** Method: **SW8260**

LCSD Sample ID: **VLCSDW1-110505-R89778** Units: **µg/L** Analysis Date: **5/5/2011 06:56 PM**

Client ID: Run ID: **VMS8_110505A** SeqNo: **1618682** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.79	1.0	20	0	104	80-130	20.4	1.89	30	
1,1,1-Trichloroethane	21.47	1.0	20	0	107	65-130	20.91	2.64	30	
1,1,2,2-Tetrachloroethane	23.46	1.0	20	0	117	65-130	23.24	0.942	30	
1,1,2-Trichloroethane	22.57	1.0	20	0	113	75-125	22.52	0.222	30	
1,1-Dichloroethane	22.82	1.0	20	0	114	70-135	22.35	2.08	30	
1,1-Dichloroethene	24.59	1.0	20	0	123	70-130	23.36	5.13	30	
1,1-Dichloropropene	21.74	1.0	20	0	109	75-130	21.05	3.23	30	
1,2,3-Trichlorobenzene	23.98	3.0	20	0	120	55-140	25.32	5.44	30	
1,2,3-Trichloropropane	23.08	1.0	20	0	115	75-125	23.08	0	30	
1,2,4-Trichlorobenzene	23.15	1.0	20	0	116	65-135	23.42	1.16	30	
1,2,4-Trimethylbenzene	23.87	1.0	20	0	119	75-130	23.59	1.18	30	
1,2-Dibromo-3-chloropropane	22.43	1.0	20	0	112	50-130	23.03	2.64	30	
1,2-Dibromoethane	21.15	1.0	20	0	106	80-120	20.73	2.01	30	
1,2-Dichlorobenzene	23.02	1.0	20	0	115	70-120	22.75	1.18	30	
1,2-Dichloroethane	22.47	1.0	20	0	112	70-130	22.28	0.849	30	
1,2-Dichloropropane	23.27	2.0	20	0	116	75-125	22.83	1.91	30	
1,3,5-Trimethylbenzene	23.71	1.0	20	0	119	75-130	23.35	1.53	30	
1,3-Dichlorobenzene	23.05	2.0	20	0	115	75-125	22.96	0.391	30	
1,3-Dichloropropane	22.68	1.0	20	0	113	75-125	22.25	1.91	30	
1,4-Dichlorobenzene	22.8	2.0	20	0	114	75-125	22.84	0.175	30	
2,2-Dichloropropane	21.01	1.0	20	0	105	70-135	20.77	1.15	30	
2-Butanone	16.67	5.0	20	0	83.4	30-150	15.92	4.6	30	
2-Chlorotoluene	23.61	2.0	20	0	118	75-125	22.97	2.75	30	
2-Hexanone	20.5	5.0	20	0	102	55-130	20.71	1.02	30	
4-Chlorotoluene	23.24	1.0	20	0	116	75-135	22.91	1.43	30	
4-Methyl-2-pentanone	27.8	5.0	20	0	139	60-135	27.47	1.19	30	S
Acetone	22.3	20	20	0	112	40-140	22.27	0.135	30	
Acrylonitrile	21.46	1.0	20	0	107	70-135	21.85	1.8	30	
Benzene	23.02	1.0	20	0	115	80-120	22.68	1.49	30	
Bromobenzene	22.83	1.0	20	0	114	75-125	22.39	1.95	30	
Bromochloromethane	23.1	1.0	20	0	116	65-130	22.85	1.09	30	
Bromodichloromethane	22.2	1.0	20	0	111	75-120	21.95	1.13	30	
Bromoform	22.01	1.0	20	0	110	70-130	21.93	0.364	30	
Carbon disulfide	25.94	2.5	20	0	130	35-165	25.27	2.62	30	
Carbon tetrachloride	23	1.0	20	0	115	65-140	22.76	1.05	30	
Chlorobenzene	23.09	1.0	20	0	115	80-120	22.48	2.68	30	
Chloroethane	20.06	1.0	20	0	100	60-135	19.94	0.6	30	
Chloroform	22.96	1.0	20	0	115	65-135	22.51	1.98	30	
Chloromethane	18.95	1.0	20	0	94.8	70-125	18	5.14	30	
cis-1,2-Dichloroethene	23.24	1.0	20	0	116	70-125	22.98	1.13	30	
cis-1,3-Dichloropropene	22.28	1.0	20	0	111	70-130	22.02	1.17	30	
Dibromochloromethane	22.44	1.0	20	0	112	60-135	22.04	1.8	30	

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89778** Instrument ID **VMS8** Method: **SW8260**

Dibromomethane	22.65	1.0	20	0	113	75-125	22.64	0.0442	30
Dichlorodifluoromethane	19.37	1.0	20	0	96.8	30-155	18.63	3.89	30
Ethylbenzene	23.32	1.0	20	0	117	75-125	23.01	1.34	30
Hexachlorobutadiene	25.82	5.0	20	0	129	50-140	26.46	2.45	30
Hexachloroethane	20.71	1.0	20	0	104	70-135	20.66	0.242	30
Iodomethane	23.78	5.0	20	0	119	70-135	21.86	8.41	30
Isopropylbenzene	21.58	1.0	20	0	108	75-125	21.09	2.3	30
m,p-Xylene	47.8	2.0	40	0	120	75-130	46.53	2.69	30
Methyl tert-butyl ether	20.77	5.0	20	0	104	65-125	20.82	0.24	30
Methylene chloride	20.98	5.0	20	0	105	55-140	20.5	2.31	30
n-Butylbenzene	24.74	1.0	20	0	124	70-135	24.55	0.771	30
n-Propylbenzene	23.59	1.0	20	0	118	70-130	23.16	1.84	30
Naphthalene	24.16	5.0	20	0	121	55-140	24.96	3.26	30
o-Xylene	23.68	1.0	20	0	118	80-120	23.19	2.09	30
p-Isopropyltoluene	23.7	2.0	20	0	118	75-130	23.6	0.423	30
sec-Butylbenzene	24.25	2.0	20	0	121	70-125	23.87	1.58	30
Styrene	21.49	1.0	20	0	107	65-135	20.83	3.12	30
tert-Butylbenzene	24.16	2.0	20	0	121	70-130	23.83	1.38	30
Tetrachloroethene	23.45	2.0	20	0	117	45-150	22.92	2.29	30
Tetrahydrofuran	20.53	10	20	0	103	70-135	20.14	1.92	30
Toluene	22.58	1.0	20	0	113	75-120	22.02	2.51	30
trans-1,2-Dichloroethene	23.81	1.0	20	0	119	60-140	23.69	0.505	30
trans-1,3-Dichloropropene	22.38	1.0	20	0	112	55-140	22.07	1.39	30
trans-1,4-Dichloro-2-butene	19.52	5.0	20	0	97.6	70-135	19.63	0.562	30
Trichloroethene	23.34	1.0	20	0	117	70-125	22.91	1.86	30
Trichlorofluoromethane	17.15	1.0	20	0	85.8	60-145	16.74	2.42	30
Vinyl chloride	22.14	1.0	20	0	111	50-145	21.54	2.75	30
Xylenes, Total	71.48	2.0	60	0	119	75-130	69.72	2.49	30
Surr: 1,2-Dichloroethane-d4	*101*	0	*100*	0	*101*	*70-120*	101.7	*0.651*	*30*
Surr: 4-Bromofluorobenzene	*100.4*	0	*100*	0	*100*	*75-120*	99.99	*0.429*	*30*
Surr: Dibromofluoromethane	*101.3*	0	*100*	0	*101*	*85-115*	102.2	*0.875*	*30*
Surr: Toluene-d8	*100.6*	0	*100*	0	*101*	*85-120*	99.74	*0.868*	*30*

The following samples were analyzed in this batch:

1104753-01A	1104753-02A	1104753-03A
1104753-04A	1104753-05A	1104753-06A

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89814** Instrument ID **VMS7** Method: **SW8260**

MBLK Sample ID: **VBLKW2-110506-R89814** Units: **µg/L** Analysis Date: **5/6/2011 06:16 PM**

Client ID: Run ID: **VMS7_110506A** SeqNo: **1619284** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1,2-Trichlorotrifluoroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,1-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	3.0								
1,2,3-Trichloropropane	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	1.0								
1,2-Dibromoethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	2.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,3-Dichlorobenzene	ND	2.0								
1,3-Dichloropropane	ND	1.0								
1,4-Dichlorobenzene	ND	2.0								
2,2-Dichloropropane	ND	1.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	2.0								
2-Hexanone	ND	5.0								
2-Methylnaphthalene	ND	10								
4-Chlorotoluene	ND	1.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	20								
Acrylonitrile	ND	1.0								
Benzene	ND	1.0								
Bromobenzene	ND	1.0								
Bromochloromethane	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Carbon disulfide	ND	2.5								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89814** Instrument ID **VMS7** Method: **SW8260**

cis-1,3-Dichloropropene	ND	1.0						
Dibromochloromethane	ND	1.0						
Dibromomethane	ND	1.0						
Dichlorodifluoromethane	ND	1.0						
Diethyl ether	ND	10						
Diisopropyl ether	ND	5.0						
Ethyl tert butyl ether	ND	5.0						
Ethylbenzene	ND	1.0						
Hexachlorobutadiene	ND	5.0						
Hexachloroethane	ND	1.0						
Hexane	ND	5.0						
Iodomethane	ND	5.0						
Isopropylbenzene	ND	1.0						
m,p-Xylene	ND	2.0						
Methyl tert-butyl ether	ND	5.0						
Methylene chloride	ND	5.0						
n-Butylbenzene	ND	1.0						
n-Propylbenzene	ND	1.0						
Naphthalene	0.72	5.0						J
o-Xylene	ND	1.0						
p-Isopropyltoluene	ND	2.0						
sec-Butylbenzene	ND	2.0						
Styrene	ND	1.0						
tert-Butyl alcohol	ND	50						
tert-Butylbenzene	ND	2.0						
Tetrachloroethene	ND	2.0						
Tetrahydrofuran	ND	10						
Toluene	ND	1.0						
trans-1,2-Dichloroethene	ND	1.0						
trans-1,3-Dichloropropene	ND	1.0						
trans-1,4-Dichloro-2-butene	ND	5.0						
Trichloroethene	ND	1.0						
Trichlorofluoromethane	ND	1.0						
Vinyl acetate	ND	1.0						
Vinyl chloride	ND	1.0						
1,2-Dichloroethene, Total	ND	2.0						
1,3-Dichloropropene, Total	ND	2.0						
Xylenes, Total	ND	2.0						
Surr: 1,2-Dichloroethane-d4	*95.8*	0	*100*	0	*95.8*	*70-120*	0	
Surr: 4-Bromofluorobenzene	*93.45*	0	*100*	0	*93.4*	*75-120*	0	
Surr: Dibromofluoromethane	*110.4*	0	*100*	0	*110*	*85-115*	0	
Surr: Toluene-d8	*102.8*	0	*100*	0	*103*	*85-120*	0	

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89814** Instrument ID **VMS7** Method: **SW8260**

LCS Sample ID: **VLCSW1-110506-R89814** Units: **µg/L** Analysis Date: **5/6/2011 05:03 PM**

Client ID: Run ID: **VMS7_110506A** SeqNo: **1619226** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.26	1.0	20	0	101	80-130	0			
1,1,1-Trichloroethane	20.6	1.0	20	0	103	65-130	0			
1,1,2,2-Tetrachloroethane	21.02	1.0	20	0	105	65-130	0			
1,1,2-Trichloroethane	21.55	1.0	20	0	108	75-125	0			
1,1-Dichloroethane	20.43	1.0	20	0	102	70-135	0			
1,1-Dichloroethene	21.64	1.0	20	0	108	70-130	0			
1,1-Dichloropropene	21.29	1.0	20	0	106	75-130	0			
1,2,3-Trichlorobenzene	26.86	3.0	20	0	134	55-140	0			
1,2,3-Trichloropropane	21.3	1.0	20	0	106	75-125	0			
1,2,4-Trichlorobenzene	25.55	1.0	20	0	128	65-135	0			
1,2,4-Trimethylbenzene	20.97	1.0	20	0	105	75-130	0			
1,2-Dibromo-3-chloropropane	23.83	1.0	20	0	119	50-130	0			
1,2-Dibromoethane	21.94	1.0	20	0	110	80-120	0			
1,2-Dichlorobenzene	22.74	1.0	20	0	114	70-120	0			
1,2-Dichloroethane	21.07	1.0	20	0	105	70-130	0			
1,2-Dichloropropane	21.18	2.0	20	0	106	75-125	0			
1,3,5-Trimethylbenzene	21.31	1.0	20	0	107	75-130	0			
1,3-Dichlorobenzene	22.38	2.0	20	0	112	75-125	0			
1,3-Dichloropropane	21.48	1.0	20	0	107	75-125	0			
1,4-Dichlorobenzene	22.26	2.0	20	0	111	75-125	0			
2,2-Dichloropropane	21.83	1.0	20	0	109	70-135	0			
2-Butanone	18.3	5.0	20	0	91.5	30-150	0			
2-Chlorotoluene	22.1	2.0	20	0	110	75-125	0			
2-Hexanone	18.27	5.0	20	0	91.4	55-130	0			
4-Chlorotoluene	22.64	1.0	20	0	113	75-135	0			
4-Methyl-2-pentanone	24.11	5.0	20	0	121	60-135	0			
Acetone	20.9	20	20	0	104	40-140	0			
Acrylonitrile	21.7	1.0	20	0	108	70-135	0			
Benzene	21.41	1.0	20	0	107	80-120	0			
Bromobenzene	21.46	1.0	20	0	107	75-125	0			
Bromochloromethane	21.26	1.0	20	0	106	65-130	0			
Bromodichloromethane	21.9	1.0	20	0	110	75-120	0			
Bromoform	20.61	1.0	20	0	103	70-130	0			
Carbon disulfide	23.26	2.5	20	0	116	35-165	0			
Carbon tetrachloride	20.22	1.0	20	0	101	65-140	0			
Chlorobenzene	21.71	1.0	20	0	109	80-120	0			
Chloroethane	17.87	1.0	20	0	89.4	60-135	0			
Chloroform	20.85	1.0	20	0	104	65-135	0			
Chloromethane	15.59	1.0	20	0	78	70-125	0			
cis-1,2-Dichloroethene	20.54	1.0	20	0	103	70-125	0			
cis-1,3-Dichloropropene	21	1.0	20	0	105	70-130	0			
Dibromochloromethane	20.38	1.0	20	0	102	60-135	0			

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89814** Instrument ID **VMS7** Method: **SW8260**

Dibromomethane	20.55	1.0	20	0	103	75-125	0
Dichlorodifluoromethane	15.04	1.0	20	0	75.2	30-155	0
Ethylbenzene	21.7	1.0	20	0	108	75-125	0
Hexachlorobutadiene	27.14	5.0	20	0	136	50-140	0
Hexachloroethane	21.97	1.0	20	0	110	70-135	0
Iodomethane	18.43	5.0	20	0	92.2	70-135	0
Isopropylbenzene	20.87	1.0	20	0	104	75-125	0
m,p-Xylene	43.8	2.0	40	0	110	75-130	0
Methyl tert-butyl ether	20.16	5.0	20	0	101	65-125	0
Methylene chloride	21.83	5.0	20	0	109	55-140	0
n-Butylbenzene	23.84	1.0	20	0	119	70-135	0
n-Propylbenzene	21.96	1.0	20	0	110	70-130	0
Naphthalene	23.15	5.0	20	0	116	55-140	0
o-Xylene	20.67	1.0	20	0	103	80-120	0
p-Isopropyltoluene	23.12	2.0	20	0	116	75-130	0
sec-Butylbenzene	22.11	2.0	20	0	111	70-125	0
Styrene	20.91	1.0	20	0	105	65-135	0
tert-Butylbenzene	21.32	2.0	20	0	107	70-130	0
Tetrachloroethene	20.92	2.0	20	0	105	45-150	0
Tetrahydrofuran	22.18	10	20	0	111	70-135	0
Toluene	21.13	1.0	20	0	106	75-120	0
trans-1,2-Dichloroethene	22.05	1.0	20	0	110	60-140	0
trans-1,3-Dichloropropene	21.27	1.0	20	0	106	55-140	0
trans-1,4-Dichloro-2-butene	18.41	5.0	20	0	92	70-135	0
Trichloroethene	21.19	1.0	20	0	106	70-125	0
Trichlorofluoromethane	15.24	1.0	20	0	76.2	60-145	0
Vinyl chloride	18.78	1.0	20	0	93.9	50-145	0
Xylenes, Total	64.47	2.0	60	0	107	75-130	0
Surr: 1,2-Dichloroethane-d4	*97.96*	0	*100*	0	*98*	*70-120*	0
Surr: 4-Bromofluorobenzene	*100.9*	0	*100*	0	*101*	*75-120*	0
Surr: Dibromofluoromethane	*100.5*	0	*100*	0	*100*	*85-115*	0
Surr: Toluene-d8	*100.8*	0	*100*	0	*101*	*85-120*	0

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89814** Instrument ID **VMS7** Method: **SW8260**

LCSD Sample ID: **VLCSDW1-110506-R89814** Units: **µg/L** Analysis Date: **5/6/2011 05:28 PM**

Client ID: Run ID: **VMS7_110506A** SeqNo: **1619248** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.93	1.0	20	0	105	80-130	20.26	3.25	30	
1,1,1-Trichloroethane	21.41	1.0	20	0	107	65-130	20.6	3.86	30	
1,1,2,2-Tetrachloroethane	21.97	1.0	20	0	110	65-130	21.02	4.42	30	
1,1,2-Trichloroethane	22.45	1.0	20	0	112	75-125	21.55	4.09	30	
1,1-Dichloroethane	21.42	1.0	20	0	107	70-135	20.43	4.73	30	
1,1-Dichloroethene	22.58	1.0	20	0	113	70-130	21.64	4.25	30	
1,1-Dichloropropene	22.14	1.0	20	0	111	75-130	21.29	3.91	30	
1,2,3-Trichlorobenzene	25.44	3.0	20	0	127	55-140	26.86	5.43	30	
1,2,3-Trichloropropane	22.53	1.0	20	0	113	75-125	21.3	5.61	30	
1,2,4-Trichlorobenzene	24.62	1.0	20	0	123	65-135	25.55	3.71	30	
1,2,4-Trimethylbenzene	21.15	1.0	20	0	106	75-130	20.97	0.855	30	
1,2-Dibromo-3-chloropropane	24.15	1.0	20	0	121	50-130	23.83	1.33	30	
1,2-Dibromoethane	22.8	1.0	20	0	114	80-120	21.94	3.84	30	
1,2-Dichlorobenzene	22.65	1.0	20	0	113	70-120	22.74	0.397	30	
1,2-Dichloroethane	22.05	1.0	20	0	110	70-130	21.07	4.55	30	
1,2-Dichloropropane	22.28	2.0	20	0	111	75-125	21.18	5.06	30	
1,3,5-Trimethylbenzene	21.4	1.0	20	0	107	75-130	21.31	0.421	30	
1,3-Dichlorobenzene	21.86	2.0	20	0	109	75-125	22.38	2.35	30	
1,3-Dichloropropane	22.32	1.0	20	0	112	75-125	21.48	3.84	30	
1,4-Dichlorobenzene	22.02	2.0	20	0	110	75-125	22.26	1.08	30	
2,2-Dichloropropane	22.78	1.0	20	0	114	70-135	21.83	4.26	30	
2-Butanone	19.91	5.0	20	0	99.6	30-150	18.3	8.43	30	
2-Chlorotoluene	22.84	2.0	20	0	114	75-125	22.1	3.29	30	
2-Hexanone	19.52	5.0	20	0	97.6	55-130	18.27	6.62	30	
4-Chlorotoluene	23.07	1.0	20	0	115	75-135	22.64	1.88	30	
4-Methyl-2-pentanone	26.1	5.0	20	0	130	60-135	24.11	7.93	30	
Acetone	22.32	20	20	0	112	40-140	20.9	6.57	30	
Acrylonitrile	22.71	1.0	20	0	114	70-135	21.7	4.55	30	
Benzene	22.33	1.0	20	0	112	80-120	21.41	4.21	30	
Bromobenzene	22.08	1.0	20	0	110	75-125	21.46	2.85	30	
Bromochloromethane	21.97	1.0	20	0	110	65-130	21.26	3.28	30	
Bromodichloromethane	22.62	1.0	20	0	113	75-120	21.9	3.23	30	
Bromoform	21.01	1.0	20	0	105	70-130	20.61	1.92	30	
Carbon disulfide	24.12	2.5	20	0	121	35-165	23.26	3.63	30	
Carbon tetrachloride	20.98	1.0	20	0	105	65-140	20.22	3.69	30	
Chlorobenzene	22.33	1.0	20	0	112	80-120	21.71	2.82	30	
Chloroethane	18.39	1.0	20	0	92	60-135	17.87	2.87	30	
Chloroform	21.72	1.0	20	0	109	65-135	20.85	4.09	30	
Chloromethane	16.21	1.0	20	0	81	70-125	15.59	3.9	30	
cis-1,2-Dichloroethene	21.62	1.0	20	0	108	70-125	20.54	5.12	30	
cis-1,3-Dichloropropene	21.96	1.0	20	0	110	70-130	21	4.47	30	
Dibromochloromethane	20.8	1.0	20	0	104	60-135	20.38	2.04	30	

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89814** Instrument ID **VMS7** Method: **SW8260**

Dibromomethane	21.61	1.0	20	0	108	75-125	20.55	5.03	30
Dichlorodifluoromethane	15.33	1.0	20	0	76.6	30-155	15.04	1.91	30
Ethylbenzene	22.36	1.0	20	0	112	75-125	21.7	3	30
Hexachlorobutadiene	26.8	5.0	20	0	134	50-140	27.14	1.26	30
Hexachloroethane	21.23	1.0	20	0	106	70-135	21.97	3.43	30
Iodomethane	19.7	5.0	20	0	98.5	70-135	18.43	6.66	30
Isopropylbenzene	21.32	1.0	20	0	107	75-125	20.87	2.13	30
m,p-Xylene	45.34	2.0	40	0	113	75-130	43.8	3.46	30
Methyl tert-butyl ether	21.01	5.0	20	0	105	65-125	20.16	4.13	30
Methylene chloride	22.66	5.0	20	0	113	55-140	21.83	3.73	30
n-Butylbenzene	22.63	1.0	20	0	113	70-135	23.84	5.21	30
n-Propylbenzene	22.37	1.0	20	0	112	70-130	21.96	1.85	30
Naphthalene	22.45	5.0	20	0	112	55-140	23.15	3.07	30
o-Xylene	21.39	1.0	20	0	107	80-120	20.67	3.42	30
p-Isopropyltoluene	22.33	2.0	20	0	112	75-130	23.12	3.48	30
sec-Butylbenzene	21.8	2.0	20	0	109	70-125	22.11	1.41	30
Styrene	21.43	1.0	20	0	107	65-135	20.91	2.46	30
tert-Butylbenzene	21.48	2.0	20	0	107	70-130	21.32	0.748	30
Tetrachloroethene	21.3	2.0	20	0	106	45-150	20.92	1.8	30
Tetrahydrofuran	23.77	10	20	0	119	70-135	22.18	6.92	30
Toluene	21.8	1.0	20	0	109	75-120	21.13	3.12	30
trans-1,2-Dichloroethene	22.85	1.0	20	0	114	60-140	22.05	3.56	30
trans-1,3-Dichloropropene	21.69	1.0	20	0	108	55-140	21.27	1.96	30
trans-1,4-Dichloro-2-butene	19.52	5.0	20	0	97.6	70-135	18.41	5.85	30
Trichloroethene	22.06	1.0	20	0	110	70-125	21.19	4.02	30
Trichlorofluoromethane	15.34	1.0	20	0	76.7	60-145	15.24	0.654	30
Vinyl chloride	19.38	1.0	20	0	96.9	50-145	18.78	3.14	30
Xylenes, Total	66.73	2.0	60	0	111	75-130	64.47	3.45	30
Surr: 1,2-Dichloroethane-d4	*98.73*	0	*100*	0	*98.7*	*70-120*	97.96	*0.783*	*30*
Surr: 4-Bromofluorobenzene	*100.6*	0	*100*	0	*101*	*75-120*	100.9	*0.308*	*30*
Surr: Dibromofluoromethane	*98.58*	0	*100*	0	*98.6*	*85-115*	100.5	*1.93*	*30*
Surr: Toluene-d8	*100.6*	0	*100*	0	*101*	*85-120*	100.8	*0.278*	*30*

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89814** Instrument ID **VMS7** Method: **SW8260**

MS Sample ID: **1104743-32A MS** Units: **µg/L** Analysis Date: **5/7/2011 02:20 AM**

Client ID: Run ID: **VMS7_110506A** SeqNo: **1619297** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19.57	1.0	20	0	97.8	80-130	0			
1,1,1-Trichloroethane	21.16	1.0	20	0	106	65-130	0			
1,1,2,2-Tetrachloroethane	20.01	1.0	20	0	100	65-130	0			
1,1,2-Trichloroethane	20.78	1.0	20	0	104	75-125	0			
1,1-Dichloroethane	20.4	1.0	20	0	102	70-135	0			
1,1-Dichloroethene	22.78	1.0	20	0	114	70-130	0			
1,1-Dichloropropene	21.67	1.0	20	0	108	75-130	0			
1,2,3-Trichlorobenzene	22.97	3.0	20	0	115	55-140	0			
1,2,3-Trichloropropane	20.7	1.0	20	0	104	75-125	0			
1,2,4-Trichlorobenzene	22.68	1.0	20	0	113	65-135	0			
1,2,4-Trimethylbenzene	18.54	1.0	20	0	92.7	75-130	0			
1,2-Dibromo-3-chloropropane	20.64	1.0	20	0	103	50-130	0			
1,2-Dibromoethane	21.08	1.0	20	0	105	80-120	0			
1,2-Dichlorobenzene	21.48	1.0	20	0	107	70-120	0			
1,2-Dichloroethane	20.3	1.0	20	0	102	70-130	0			
1,2-Dichloropropane	20.67	2.0	20	0	103	75-125	0			
1,3,5-Trimethylbenzene	19.25	1.0	20	0	96.2	75-130	0			
1,3-Dichlorobenzene	19.65	2.0	20	0	98.2	75-125	0			
1,3-Dichloropropane	20.95	1.0	20	0	105	75-125	0			
1,4-Dichlorobenzene	20.3	2.0	20	0	102	75-125	0			
2,2-Dichloropropane	17.98	1.0	20	0	89.9	70-135	0			
2-Butanone	25.73	5.0	20	0	129	30-150	0			
2-Chlorotoluene	20.55	2.0	20	0	103	75-125	0			
2-Hexanone	18.52	5.0	20	0	92.6	55-130	0			
4-Chlorotoluene	20.41	1.0	20	0	102	75-135	0			
4-Methyl-2-pentanone	25.49	5.0	20	0	127	60-135	0			
Acetone	15.98	20	20	0	79.9	40-140	0			J
Acrylonitrile	19.12	1.0	20	0	95.6	70-135	0			
Benzene	21.29	1.0	20	0	106	80-120	0			
Bromobenzene	19.31	1.0	20	0	96.6	75-125	0			
Bromochloromethane	20.67	1.0	20	0	103	65-130	0			
Bromodichloromethane	21.12	1.0	20	0	106	75-120	0			
Bromoform	19.7	1.0	20	0	98.5	70-130	0			
Carbon disulfide	23.69	2.5	20	0	118	35-165	0			
Carbon tetrachloride	21.01	1.0	20	0	105	65-140	0			
Chlorobenzene	21.21	1.0	20	0	106	80-120	0			
Chloroethane	16.57	1.0	20	0	82.8	60-135	0			
Chloroform	20.6	1.0	20	0	103	65-135	0			
Chloromethane	14.35	1.0	20	0	71.8	70-125	0			
cis-1,2-Dichloroethene	20.2	1.0	20	0	101	70-125	0			
cis-1,3-Dichloropropene	19.79	1.0	20	0	99	70-130	0			
Dibromochloromethane	18.76	1.0	20	0	93.8	60-135	0			

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89814** Instrument ID **VMS7** Method: **SW8260**

Dibromomethane	19.85	1.0	20	0	99.2	75-125	0	
Dichlorodifluoromethane	16.1	1.0	20	0	80.5	30-155	0	
Ethylbenzene	21.41	1.0	20	0	107	75-125	0	
Hexachlorobutadiene	25.34	5.0	20	0	127	50-140	0	
Hexachloroethane	22.01	1.0	20	0	110	70-135	0	
Iodomethane	17.47	5.0	20	0	87.4	70-135	0	
Isopropylbenzene	20.19	1.0	20	0	101	75-125	0	
m,p-Xylene	43.02	2.0	40	0	108	75-130	0	
Methyl tert-butyl ether	19.98	5.0	20	0	99.9	65-125	0	
Methylene chloride	20.69	5.0	20	0	103	55-140	0	
n-Butylbenzene	19.41	1.0	20	0	97	70-135	0	
n-Propylbenzene	20.56	1.0	20	0	103	70-130	0	
Naphthalene	20.75	5.0	20	0	104	55-140	0	
o-Xylene	20.13	1.0	20	0	101	80-120	0	
p-Isopropyltoluene	19.34	2.0	20	0	96.7	75-130	0	
sec-Butylbenzene	19.34	2.0	20	0	96.7	70-125	0	
Styrene	19.78	1.0	20	0	98.9	65-135	0	
tert-Butylbenzene	19.69	2.0	20	0	98.4	70-130	0	
Tetrachloroethene	20.53	2.0	20	0	103	45-150	0	
Tetrahydrofuran	18.01	10	20	0	90	70-135	0	
Toluene	21.12	1.0	20	0	106	75-120	0	
trans-1,2-Dichloroethene	21.85	1.0	20	0	109	60-140	0	
trans-1,3-Dichloropropene	19.71	1.0	20	0	98.6	55-140	0	
trans-1,4-Dichloro-2-butene	30.04	5.0	20	0	150	70-135	0	S
Trichloroethene	21.36	1.0	20	0	107	70-125	0	
Trichlorofluoromethane	16.26	1.0	20	0	81.3	60-145	0	
Vinyl chloride	18.95	1.0	20	0	94.8	50-145	0	
Xylenes, Total	63.15	2.0	60	0	105	75-130	0	
Surr: 1,2-Dichloroethane-d4	*98.53*	0	*100*	0	*98.5*	*70-120*	0	
Surr: 4-Bromofluorobenzene	*95.53*	0	*100*	0	*95.5*	*75-120*	0	
Surr: Dibromofluoromethane	*111.8*	0	*100*	0	*112*	*85-115*	0	
Surr: Toluene-d8	*101.8*	0	*100*	0	*102*	*85-120*	0	

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89814** Instrument ID **VMS7** Method: **SW8260**

MSD Sample ID: **1104743-32A MSD** Units: **µg/L** Analysis Date: **5/7/2011 02:44 AM**

Client ID: Run ID: **VMS7_110506A** SeqNo: **1619298** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	18.82	1.0	20	0	94.1	80-130	19.57	3.91	30	
1,1,1-Trichloroethane	19.98	1.0	20	0	99.9	65-130	21.16	5.74	30	
1,1,2,2-Tetrachloroethane	19.98	1.0	20	0	99.9	65-130	20.01	0.15	30	
1,1,2-Trichloroethane	19.47	1.0	20	0	97.4	75-125	20.78	6.51	30	
1,1-Dichloroethane	19	1.0	20	0	95	70-135	20.4	7.11	30	
1,1-Dichloroethene	21.24	1.0	20	0	106	70-130	22.78	7	30	
1,1-Dichloropropene	20.37	1.0	20	0	102	75-130	21.67	6.18	30	
1,2,3-Trichlorobenzene	22.13	3.0	20	0	111	55-140	22.97	3.73	30	
1,2,3-Trichloropropane	20.54	1.0	20	0	103	75-125	20.7	0.776	30	
1,2,4-Trichlorobenzene	22.06	1.0	20	0	110	65-135	22.68	2.77	30	
1,2,4-Trimethylbenzene	18.38	1.0	20	0	91.9	75-130	18.54	0.867	30	
1,2-Dibromo-3-chloropropane	19.34	1.0	20	0	96.7	50-130	20.64	6.5	30	
1,2-Dibromoethane	20.27	1.0	20	0	101	80-120	21.08	3.92	30	
1,2-Dichlorobenzene	20.53	1.0	20	0	103	70-120	21.48	4.52	30	
1,2-Dichloroethane	19.39	1.0	20	0	97	70-130	20.3	4.59	30	
1,2-Dichloropropane	19.85	2.0	20	0	99.2	75-125	20.67	4.05	30	
1,3,5-Trimethylbenzene	18.79	1.0	20	0	94	75-130	19.25	2.42	30	
1,3-Dichlorobenzene	18.28	2.0	20	0	91.4	75-125	19.65	7.22	30	
1,3-Dichloropropane	19.8	1.0	20	0	99	75-125	20.95	5.64	30	
1,4-Dichlorobenzene	19.44	2.0	20	0	97.2	75-125	20.3	4.33	30	
2,2-Dichloropropane	16.86	1.0	20	0	84.3	70-135	17.98	6.43	30	
2-Butanone	21.24	5.0	20	0	106	30-150	25.73	19.1	30	
2-Chlorotoluene	19.82	2.0	20	0	99.1	75-125	20.55	3.62	30	
2-Hexanone	18.73	5.0	20	0	93.6	55-130	18.52	1.13	30	
4-Chlorotoluene	19.96	1.0	20	0	99.8	75-135	20.41	2.23	30	
4-Methyl-2-pentanone	24.57	5.0	20	0	123	60-135	25.49	3.68	30	
Acetone	14.79	20	20	0	74	40-140	15.98	0	30	J
Acrylonitrile	17.97	1.0	20	0	89.8	70-135	19.12	6.2	30	
Benzene	20.06	1.0	20	0	100	80-120	21.29	5.95	30	
Bromobenzene	18.95	1.0	20	0	94.8	75-125	19.31	1.88	30	
Bromochloromethane	19.36	1.0	20	0	96.8	65-130	20.67	6.55	30	
Bromodichloromethane	20.13	1.0	20	0	101	75-120	21.12	4.8	30	
Bromoform	19.18	1.0	20	0	95.9	70-130	19.7	2.67	30	
Carbon disulfide	21.99	2.5	20	0	110	35-165	23.69	7.44	30	
Carbon tetrachloride	19.74	1.0	20	0	98.7	65-140	21.01	6.23	30	
Chlorobenzene	19.96	1.0	20	0	99.8	80-120	21.21	6.07	30	
Chloroethane	15.36	1.0	20	0	76.8	60-135	16.57	7.58	30	
Chloroform	19.16	1.0	20	0	95.8	65-135	20.6	7.24	30	
Chloromethane	13.77	1.0	20	0	68.8	70-125	14.35	4.13	30	S
cis-1,2-Dichloroethene	19.05	1.0	20	0	95.2	70-125	20.2	5.86	30	
cis-1,3-Dichloropropene	19.17	1.0	20	0	95.8	70-130	19.79	3.18	30	
Dibromochloromethane	17.87	1.0	20	0	89.4	60-135	18.76	4.86	30	

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89814** Instrument ID **VMS7** Method: **SW8260**

Dibromomethane	19.13	1.0	20	0	95.6	75-125	19.85	3.69	30	
Dichlorodifluoromethane	15.5	1.0	20	0	77.5	30-155	16.1	3.8	30	
Ethylbenzene	20.33	1.0	20	0	102	75-125	21.41	5.17	30	
Hexachlorobutadiene	25	5.0	20	0	125	50-140	25.34	1.35	30	
Hexachloroethane	21.08	1.0	20	0	105	70-135	22.01	4.32	30	
Iodomethane	16.08	5.0	20	0	80.4	70-135	17.47	8.29	30	
Isopropylbenzene	19.37	1.0	20	0	96.8	75-125	20.19	4.15	30	
m,p-Xylene	40.7	2.0	40	0	102	75-130	43.02	5.54	30	
Methyl tert-butyl ether	18.78	5.0	20	0	93.9	65-125	19.98	6.19	30	
Methylene chloride	19.1	5.0	20	0	95.5	55-140	20.69	7.99	30	
n-Butylbenzene	18.14	1.0	20	0	90.7	70-135	19.41	6.76	30	
n-Propylbenzene	19.83	1.0	20	0	99.2	70-130	20.56	3.61	30	
Naphthalene	19.79	5.0	20	0	99	55-140	20.75	4.74	30	
o-Xylene	19.02	1.0	20	0	95.1	80-120	20.13	5.67	30	
p-Isopropyltoluene	17.83	2.0	20	0	89.2	75-130	19.34	8.12	30	
sec-Butylbenzene	19.15	2.0	20	0	95.8	70-125	19.34	0.987	30	
Styrene	19.07	1.0	20	0	95.4	65-135	19.78	3.66	30	
tert-Butylbenzene	19.16	2.0	20	0	95.8	70-130	19.69	2.73	30	
Tetrachloroethene	19.65	2.0	20	0	98.2	45-150	20.53	4.38	30	
Tetrahydrofuran	17	10	20	0	85	70-135	18.01	5.77	30	
Toluene	19.69	1.0	20	0	98.4	75-120	21.12	7.01	30	
trans-1,2-Dichloroethene	20.46	1.0	20	0	102	60-140	21.85	6.57	30	
trans-1,3-Dichloropropene	18.54	1.0	20	0	92.7	55-140	19.71	6.12	30	
trans-1,4-Dichloro-2-butene	31.33	5.0	20	0	157	70-135	30.04	4.2	30	S
Trichloroethene	20.44	1.0	20	0	102	70-125	21.36	4.4	30	
Trichlorofluoromethane	14.61	1.0	20	0	73	60-145	16.26	10.7	30	
Vinyl chloride	18.06	1.0	20	0	90.3	50-145	18.95	4.81	30	
Xylenes, Total	59.72	2.0	60	0	99.5	75-130	63.15	5.58	30	
Surr: 1,2-Dichloroethane-d4	*97*	0	*100*	0	*97*	*70-120*	98.53	*1.56*	*30*	
Surr: 4-Bromofluorobenzene	*97.62*	0	*100*	0	*97.6*	*75-120*	95.53	*2.16*	*30*	
Surr: Dibromofluoromethane	*110.2*	0	*100*	0	*110*	*85-115*	111.8	*1.42*	*30*	
Surr: Toluene-d8	*100.6*	0	*100*	0	*101*	*85-120*	101.8	*1.21*	*30*	

The following samples were analyzed in this batch: 1104753-01A 1104753-02A 1104753-03A 1104753-04A 1104753-05A

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89818** Instrument ID **VMS7** Method: **SW8260**

MBLK Sample ID: **VBLKW1-110507-R89818** Units: **µg/L** Analysis Date: **5/7/2011 10:01 AM**

Client ID: Run ID: **VMS7_110507A** SeqNo: **1619375** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1,2-Trichlorotrifluoroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,1-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	3.0								
1,2,3-Trichloropropane	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	1.0								
1,2-Dibromoethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	2.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,3-Dichlorobenzene	ND	2.0								
1,3-Dichloropropane	ND	1.0								
1,4-Dichlorobenzene	ND	2.0								
2,2-Dichloropropane	ND	1.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	2.0								
2-Hexanone	ND	5.0								
2-Methylnaphthalene	ND	10								
4-Chlorotoluene	ND	1.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	20								
Acrylonitrile	ND	1.0								
Benzene	ND	1.0								
Bromobenzene	ND	1.0								
Bromochloromethane	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Carbon disulfide	ND	2.5								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89818** Instrument ID **VMS7** Method: **SW8260**

cis-1,3-Dichloropropene	ND	1.0						
Dibromochloromethane	ND	1.0						
Dibromomethane	ND	1.0						
Dichlorodifluoromethane	ND	1.0						
Diethyl ether	ND	10						
Diisopropyl ether	ND	5.0						
Ethyl tert butyl ether	ND	5.0						
Ethylbenzene	ND	1.0						
Hexachlorobutadiene	1.32	5.0						J
Hexachloroethane	ND	1.0						
Hexane	ND	5.0						
Iodomethane	ND	5.0						
Isopropylbenzene	ND	1.0						
m,p-Xylene	ND	2.0						
Methyl tert-butyl ether	ND	5.0						
Methylene chloride	0.43	5.0						J
n-Butylbenzene	ND	1.0						
n-Propylbenzene	ND	1.0						
Naphthalene	0.67	5.0						J
o-Xylene	ND	1.0						
p-Isopropyltoluene	ND	2.0						
sec-Butylbenzene	ND	2.0						
Styrene	ND	1.0						
tert-Butyl alcohol	ND	50						
tert-Butylbenzene	ND	2.0						
Tetrachloroethene	ND	2.0						
Tetrahydrofuran	ND	10						
Toluene	ND	1.0						
trans-1,2-Dichloroethene	ND	1.0						
trans-1,3-Dichloropropene	ND	1.0						
trans-1,4-Dichloro-2-butene	ND	5.0						
Trichloroethene	ND	1.0						
Trichlorofluoromethane	ND	1.0						
Vinyl acetate	ND	1.0						
Vinyl chloride	ND	1.0						
1,2-Dichloroethene, Total	ND	2.0						
1,3-Dichloropropene, Total	ND	2.0						
Xylenes, Total	ND	2.0						
Surr: 1,2-Dichloroethane-d4	*95.98*	0	*100*	0	*96*	*70-120*	0	
Surr: 4-Bromofluorobenzene	*93.82*	0	*100*	0	*93.8*	*75-120*	0	
Surr: Dibromofluoromethane	*112.3*	0	*100*	0	*112*	*85-115*	0	
Surr: Toluene-d8	*100.8*	0	*100*	0	*101*	*85-120*	0	

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89818** Instrument ID **VMS7** Method: **SW8260**

LCS Sample ID: **VLCSW1-110507-R89818** Units: **µg/L** Analysis Date: **5/7/2011 08:47 AM**

Client ID: Run ID: **VMS7_110507A** SeqNo: **1619277** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19.11	1.0	20	0	95.6	80-130	0			
1,1,1-Trichloroethane	19.71	1.0	20	0	98.6	65-130	0			
1,1,2,2-Tetrachloroethane	18.5	1.0	20	0	92.5	65-130	0			
1,1,2-Trichloroethane	19.7	1.0	20	0	98.5	75-125	0			
1,1-Dichloroethane	18.11	1.0	20	0	90.6	70-135	0			
1,1-Dichloroethene	19.22	1.0	20	0	96.1	70-130	0			
1,1-Dichloropropene	20.06	1.0	20	0	100	75-130	0			
1,2,3-Trichlorobenzene	23.05	3.0	20	0	115	55-140	0			
1,2,3-Trichloropropane	19.35	1.0	20	0	96.8	75-125	0			
1,2,4-Trichlorobenzene	22.8	1.0	20	0	114	65-135	0			
1,2,4-Trimethylbenzene	19.48	1.0	20	0	97.4	75-130	0			
1,2-Dibromo-3-chloropropane	20.79	1.0	20	0	104	50-130	0			
1,2-Dibromoethane	19.94	1.0	20	0	99.7	80-120	0			
1,2-Dichlorobenzene	20.62	1.0	20	0	103	70-120	0			
1,2-Dichloroethane	19.37	1.0	20	0	96.8	70-130	0			
1,2-Dichloropropane	19.51	2.0	20	0	97.6	75-125	0			
1,3,5-Trimethylbenzene	20.06	1.0	20	0	100	75-130	0			
1,3-Dichlorobenzene	20.97	2.0	20	0	105	75-125	0			
1,3-Dichloropropane	19.12	1.0	20	0	95.6	75-125	0			
1,4-Dichlorobenzene	20.63	2.0	20	0	103	75-125	0			
2,2-Dichloropropane	20.16	1.0	20	0	101	70-135	0			
2-Butanone	14.95	5.0	20	0	74.8	30-150	0			
2-Chlorotoluene	20.5	2.0	20	0	102	75-125	0			
2-Hexanone	16.5	5.0	20	0	82.5	55-130	0			
4-Chlorotoluene	20.72	1.0	20	0	104	75-135	0			
4-Methyl-2-pentanone	21.23	5.0	20	0	106	60-135	0			
Acetone	17.71	20	20	0	88.6	40-140	0			J
Acrylonitrile	17.47	1.0	20	0	87.4	70-135	0			
Benzene	19.67	1.0	20	0	98.4	80-120	0			
Bromobenzene	19.81	1.0	20	0	99	75-125	0			
Bromochloromethane	18.17	1.0	20	0	90.8	65-130	0			
Bromodichloromethane	20.68	1.0	20	0	103	75-120	0			
Bromoform	21.03	1.0	20	0	105	70-130	0			
Carbon disulfide	20.73	2.5	20	0	104	35-165	0			
Carbon tetrachloride	19.37	1.0	20	0	96.8	65-140	0			
Chlorobenzene	20.21	1.0	20	0	101	80-120	0			
Chloroethane	15.26	1.0	20	0	76.3	60-135	0			
Chloroform	18.63	1.0	20	0	93.2	65-135	0			
Chloromethane	14.4	1.0	20	0	72	70-125	0			
cis-1,2-Dichloroethene	18.5	1.0	20	0	92.5	70-125	0			
cis-1,3-Dichloropropene	20.35	1.0	20	0	102	70-130	0			
Dibromochloromethane	19.21	1.0	20	0	96	60-135	0			

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89818** Instrument ID **VMS7** Method: **SW8260**

Dibromomethane	19.36	1.0	20	0	96.8	75-125	0
Dichlorodifluoromethane	13.32	1.0	20	0	66.6	30-155	0
Ethylbenzene	20.08	1.0	20	0	100	75-125	0
Hexachlorobutadiene	26.24	5.0	20	0	131	50-140	0
Hexachloroethane	22.7	1.0	20	0	114	70-135	0
Iodomethane	18.21	5.0	20	0	91	70-135	0
Isopropylbenzene	19.99	1.0	20	0	100	75-125	0
m,p-Xylene	40.27	2.0	40	0	101	75-130	0
Methyl tert-butyl ether	18.45	5.0	20	0	92.2	65-125	0
Methylene chloride	18.84	5.0	20	0	94.2	55-140	0
n-Butylbenzene	21.67	1.0	20	0	108	70-135	0
n-Propylbenzene	20.82	1.0	20	0	104	70-130	0
Naphthalene	20.06	5.0	20	0	100	55-140	0
o-Xylene	19.32	1.0	20	0	96.6	80-120	0
p-Isopropyltoluene	21.08	2.0	20	0	105	75-130	0
sec-Butylbenzene	20.7	2.0	20	0	104	70-125	0
Styrene	19.38	1.0	20	0	96.9	65-135	0
tert-Butylbenzene	20.52	2.0	20	0	103	70-130	0
Tetrachloroethene	19.6	2.0	20	0	98	45-150	0
Tetrahydrofuran	18.08	10	20	0	90.4	70-135	0
Toluene	19.02	1.0	20	0	95.1	75-120	0
trans-1,2-Dichloroethene	19.45	1.0	20	0	97.2	60-140	0
trans-1,3-Dichloropropene	19.37	1.0	20	0	96.8	55-140	0
trans-1,4-Dichloro-2-butene	19.64	5.0	20	0	98.2	70-135	0
Trichloroethene	20.84	1.0	20	0	104	70-125	0
Trichlorofluoromethane	12.94	1.0	20	0	64.7	60-145	0
Vinyl chloride	17.61	1.0	20	0	88	50-145	0
Xylenes, Total	59.59	2.0	60	0	99.3	75-130	0
Surr: 1,2-Dichloroethane-d4	*96.59*	0	*100*	0	*96.6*	*70-120*	0
Surr: 4-Bromofluorobenzene	*100.3*	0	*100*	0	*100*	*75-120*	0
Surr: Dibromofluoromethane	*102.5*	0	*100*	0	*102*	*85-115*	0
Surr: Toluene-d8	*96.87*	0	*100*	0	*96.9*	*85-120*	0

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89818** Instrument ID **VMS7** Method: **SW8260**

LCSD Sample ID: **VLCSDW1-110507-R89818** Units: **µg/L** Analysis Date: **5/7/2011 09:12 AM**

Client ID: Run ID: **VMS7_110507A** SeqNo: **1619278** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19.47	1.0	20	0	97.4	80-130	19.11	1.87	30	
1,1,1-Trichloroethane	19.78	1.0	20	0	98.9	65-130	19.71	0.355	30	
1,1,2,2-Tetrachloroethane	19.69	1.0	20	0	98.4	65-130	18.5	6.23	30	
1,1,2-Trichloroethane	20.23	1.0	20	0	101	75-125	19.7	2.65	30	
1,1-Dichloroethane	18.56	1.0	20	0	92.8	70-135	18.11	2.45	30	
1,1-Dichloroethene	19.29	1.0	20	0	96.4	70-130	19.22	0.364	30	
1,1-Dichloropropene	19.94	1.0	20	0	99.7	75-130	20.06	0.6	30	
1,2,3-Trichlorobenzene	23.75	3.0	20	0	119	55-140	23.05	2.99	30	
1,2,3-Trichloropropane	20.49	1.0	20	0	102	75-125	19.35	5.72	30	
1,2,4-Trichlorobenzene	22.7	1.0	20	0	114	65-135	22.8	0.44	30	
1,2,4-Trimethylbenzene	19.07	1.0	20	0	95.4	75-130	19.48	2.13	30	
1,2-Dibromo-3-chloropropane	22.84	1.0	20	0	114	50-130	20.79	9.4	30	
1,2-Dibromoethane	20.65	1.0	20	0	103	80-120	19.94	3.5	30	
1,2-Dichlorobenzene	20.93	1.0	20	0	105	70-120	20.62	1.49	30	
1,2-Dichloroethane	20.05	1.0	20	0	100	70-130	19.37	3.45	30	
1,2-Dichloropropane	19.85	2.0	20	0	99.2	75-125	19.51	1.73	30	
1,3,5-Trimethylbenzene	19.36	1.0	20	0	96.8	75-130	20.06	3.55	30	
1,3-Dichlorobenzene	20.48	2.0	20	0	102	75-125	20.97	2.36	30	
1,3-Dichloropropane	19.81	1.0	20	0	99	75-125	19.12	3.54	30	
1,4-Dichlorobenzene	20.35	2.0	20	0	102	75-125	20.63	1.37	30	
2,2-Dichloropropane	20.03	1.0	20	0	100	70-135	20.16	0.647	30	
2-Butanone	17.17	5.0	20	0	85.8	30-150	14.95	13.8	30	
2-Chlorotoluene	20.33	2.0	20	0	102	75-125	20.5	0.833	30	
2-Hexanone	17.95	5.0	20	0	89.8	55-130	16.5	8.42	30	
4-Chlorotoluene	20.46	1.0	20	0	102	75-135	20.72	1.26	30	
4-Methyl-2-pentanone	24	5.0	20	0	120	60-135	21.23	12.2	30	
Acetone	19.31	20	20	0	96.6	40-140	17.71	0	30	J
Acrylonitrile	19.18	1.0	20	0	95.9	70-135	17.47	9.33	30	
Benzene	19.84	1.0	20	0	99.2	80-120	19.67	0.861	30	
Bromobenzene	20.12	1.0	20	0	101	75-125	19.81	1.55	30	
Bromochloromethane	19.02	1.0	20	0	95.1	65-130	18.17	4.57	30	
Bromodichloromethane	20.85	1.0	20	0	104	75-120	20.68	0.819	30	
Bromoform	20.8	1.0	20	0	104	70-130	21.03	1.1	30	
Carbon disulfide	20.38	2.5	20	0	102	35-165	20.73	1.7	30	
Carbon tetrachloride	19.28	1.0	20	0	96.4	65-140	19.37	0.466	30	
Chlorobenzene	20.43	1.0	20	0	102	80-120	20.21	1.08	30	
Chloroethane	15.26	1.0	20	0	76.3	60-135	15.26	0	30	
Chloroform	18.87	1.0	20	0	94.4	65-135	18.63	1.28	30	
Chloromethane	14.24	1.0	20	0	71.2	70-125	14.4	1.12	30	
cis-1,2-Dichloroethene	18.64	1.0	20	0	93.2	70-125	18.5	0.754	30	
cis-1,3-Dichloropropene	20.4	1.0	20	0	102	70-130	20.35	0.245	30	
Dibromochloromethane	19.34	1.0	20	0	96.7	60-135	19.21	0.674	30	

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89818** Instrument ID **VMS7** Method: **SW8260**

Dibromomethane	19.21	1.0	20	0	96	75-125	19.36	0.778	30
Dichlorodifluoromethane	12.96	1.0	20	0	64.8	30-155	13.32	2.74	30
Ethylbenzene	20.15	1.0	20	0	101	75-125	20.08	0.348	30
Hexachlorobutadiene	23.42	5.0	20	0	117	50-140	26.24	11.4	30
Hexachloroethane	20.66	1.0	20	0	103	70-135	22.7	9.41	30
Iodomethane	18.43	5.0	20	0	92.2	70-135	18.21	1.2	30
Isopropylbenzene	19.52	1.0	20	0	97.6	75-125	19.99	2.38	30
m,p-Xylene	40.71	2.0	40	0	102	75-130	40.27	1.09	30
Methyl tert-butyl ether	19.45	5.0	20	0	97.2	65-125	18.45	5.28	30
Methylene chloride	19.27	5.0	20	0	96.4	55-140	18.84	2.26	30
n-Butylbenzene	20.65	1.0	20	0	103	70-135	21.67	4.82	30
n-Propylbenzene	20.08	1.0	20	0	100	70-130	20.82	3.62	30
Naphthalene	20.4	5.0	20	0	102	55-140	20.06	1.68	30
o-Xylene	19.43	1.0	20	0	97.2	80-120	19.32	0.568	30
p-Isopropyltoluene	20.48	2.0	20	0	102	75-130	21.08	2.89	30
sec-Butylbenzene	19.67	2.0	20	0	98.4	70-125	20.7	5.1	30
Styrene	19.3	1.0	20	0	96.5	65-135	19.38	0.414	30
tert-Butylbenzene	19.68	2.0	20	0	98.4	70-130	20.52	4.18	30
Tetrachloroethene	19.58	2.0	20	0	97.9	45-150	19.6	0.102	30
Tetrahydrofuran	20.11	10	20	0	101	70-135	18.08	10.6	30
Toluene	19.33	1.0	20	0	96.6	75-120	19.02	1.62	30
trans-1,2-Dichloroethene	19.78	1.0	20	0	98.9	60-140	19.45	1.68	30
trans-1,3-Dichloropropene	19.5	1.0	20	0	97.5	55-140	19.37	0.669	30
trans-1,4-Dichloro-2-butene	17.72	5.0	20	0	88.6	70-135	19.64	10.3	30
Trichloroethene	20.23	1.0	20	0	101	70-125	20.84	2.97	30
Trichlorofluoromethane	12.85	1.0	20	0	64.2	60-145	12.94	0.698	30
Vinyl chloride	17.32	1.0	20	0	86.6	50-145	17.61	1.66	30
Xylenes, Total	60.14	2.0	60	0	100	75-130	59.59	0.919	30
Surr: 1,2-Dichloroethane-d4	*96.72*	0	*100*	0	*96.7*	*70-120*	96.59	*0.134*	*30*
Surr: 4-Bromofluorobenzene	*99.18*	0	*100*	0	*99.2*	*75-120*	100.3	*1.15*	*30*
Surr: Dibromofluoromethane	*102.7*	0	*100*	0	*103*	*85-115*	102.5	*0.224*	*30*
Surr: Toluene-d8	*97.8*	0	*100*	0	*97.8*	*85-120*	96.87	*0.955*	*30*

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89818** Instrument ID **VMS7** Method: **SW8260**

MS Sample ID: **1104771-14A MS** Units: **µg/L** Analysis Date: **5/7/2011 06:10 PM**

Client ID: Run ID: **VMS7_110507A** SeqNo: **1619382** Prep Date: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	96.5	5.0	100	0	96.5	80-130	0			
1,1,1-Trichloroethane	101	5.0	100	0	101	65-130	0			
1,1,2,2-Tetrachloroethane	103.8	5.0	100	0	104	65-130	0			
1,1,2-Trichloroethane	103.2	5.0	100	0	103	75-125	0			
1,1-Dichloroethane	92.2	5.0	100	0	92.2	70-135	0			
1,1-Dichloroethene	97.55	5.0	100	0	97.6	70-130	0			
1,1-Dichloropropene	100.4	5.0	100	0	100	75-130	0			
1,2,3-Trichlorobenzene	111	15	100	0	111	55-140	0			
1,2,3-Trichloropropane	106.4	5.0	100	0	106	75-125	0			
1,2,4-Trichlorobenzene	106.2	5.0	100	0	106	65-135	0			
1,2,4-Trimethylbenzene	93.45	5.0	100	0	93.4	75-130	0			
1,2-Dibromo-3-chloropropane	114	5.0	100	0	114	50-130	0			
1,2-Dibromoethane	106	5.0	100	0	106	80-120	0			
1,2-Dichlorobenzene	97.15	5.0	100	0	97.2	70-120	0			
1,2-Dichloroethane	101	5.0	100	0	101	70-130	0			
1,2-Dichloropropane	98.5	10	100	0	98.5	75-125	0			
1,3,5-Trimethylbenzene	95.2	5.0	100	0	95.2	75-130	0			
1,3-Dichlorobenzene	100.6	10	100	0	101	75-125	0			
1,3-Dichloropropane	102.6	5.0	100	0	103	75-125	0			
1,4-Dichlorobenzene	97.75	10	100	0	97.8	75-125	0			
2,2-Dichloropropane	96.2	5.0	100	0	96.2	70-135	0			
2-Butanone	89.5	25	100	0	89.5	30-150	0			
2-Chlorotoluene	99.3	10	100	0	99.3	75-125	0			
2-Hexanone	93.2	25	100	0	93.2	55-130	0			
4-Chlorotoluene	100.8	5.0	100	0	101	75-135	0			
4-Methyl-2-pentanone	121.4	25	100	0	121	60-135	0			
Acetone	104.4	100	100	0	104	40-140	0			
Acrylonitrile	100	5.0	100	0	100	70-135	0			
Benzene	99.35	5.0	100	0	99.4	80-120	0			
Bromobenzene	99.7	5.0	100	0	99.7	75-125	0			
Bromochloromethane	95.2	5.0	100	0	95.2	65-130	0			
Bromodichloromethane	104	5.0	100	0	104	75-120	0			
Bromoform	107.6	5.0	100	0	108	70-130	0			
Carbon disulfide	102	12	100	0	102	35-165	0			
Carbon tetrachloride	99	5.0	100	0	99	65-140	0			
Chlorobenzene	101.3	5.0	100	0	101	80-120	0			
Chloroethane	77.9	5.0	100	0	77.9	60-135	0			
Chloroform	94.75	5.0	100	0	94.8	65-135	0			
Chloromethane	68.85	5.0	100	0	68.8	70-125	0			S
cis-1,2-Dichloroethene	92.85	5.0	100	0	92.8	70-125	0			
cis-1,3-Dichloropropene	102.5	5.0	100	0	102	70-130	0			
Dibromochloromethane	98.15	5.0	100	0	98.2	60-135	0			

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89818** Instrument ID **VMS7** Method: **SW8260**

Dibromomethane	99.15	5.0	100	0	99.2	75-125	0
Dichlorodifluoromethane	68.1	5.0	100	0	68.1	30-155	0
Ethylbenzene	100.4	5.0	100	0	100	75-125	0
Hexachlorobutadiene	104.2	25	100	0	104	50-140	0
Hexachloroethane	104.4	5.0	100	0	104	70-135	0
Iodomethane	85.9	25	100	0	85.9	70-135	0
Isopropylbenzene	96.45	5.0	100	0	96.4	75-125	0
m,p-Xylene	199.5	10	200	0	99.8	75-130	0
Methyl tert-butyl ether	95.75	25	100	0	95.8	65-125	0
Methylene chloride	96.95	25	100	3.35	93.6	55-140	0
n-Butylbenzene	96.35	5.0	100	0	96.4	70-135	0
n-Propylbenzene	98.3	5.0	100	0	98.3	70-130	0
Naphthalene	98.05	25	100	0	98	55-140	0
o-Xylene	96.35	5.0	100	0	96.4	80-120	0
p-Isopropyltoluene	97.4	10	100	0	97.4	75-130	0
sec-Butylbenzene	96.25	10	100	0	96.2	70-125	0
Styrene	94.4	5.0	100	0	94.4	65-135	0
tert-Butylbenzene	96.9	10	100	0	96.9	70-130	0
Tetrachloroethene	185.8	10	100	81.8	104	45-150	0
Tetrahydrofuran	97.45	50	100	0	97.4	70-135	0
Toluene	97.8	5.0	100	0	97.8	75-120	0
trans-1,2-Dichloroethene	98.3	5.0	100	0	98.3	60-140	0
trans-1,3-Dichloropropene	99.95	5.0	100	0	100	55-140	0
trans-1,4-Dichloro-2-butene	133.6	25	100	0	134	70-135	0
Trichloroethene	105.4	5.0	100	0	105	70-125	0
Trichlorofluoromethane	67.7	5.0	100	0	67.7	60-145	0
Vinyl chloride	86.65	5.0	100	0	86.6	50-145	0
Xylenes, Total	295.8	10	300	0	98.6	75-130	0
Surr: 1,2-Dichloroethane-d4	*486.8*	0	*500*	0	*97.4*	*70-120*	0
Surr: 4-Bromofluorobenzene	*503.7*	0	*500*	0	*101*	*75-120*	0
Surr: Dibromofluoromethane	*502.7*	0	*500*	0	*101*	*85-115*	0
Surr: Toluene-d8	*497.6*	0	*500*	0	*99.5*	*85-120*	0

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89818** Instrument ID **VMS7** Method: **SW8260**

MSD Sample ID: **1104771-14A MSD** Units: **µg/L** Analysis Date: **5/7/2011 06:34 PM**

Client ID: Run ID: **VMS7_110507A** SeqNo: **1619383** Prep Date: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	95.55	5.0	100	0	95.6	80-130	96.5	0.989	30	
1,1,1-Trichloroethane	98.9	5.0	100	0	98.9	65-130	101	2.15	30	
1,1,2,2-Tetrachloroethane	100.2	5.0	100	0	100	65-130	103.8	3.58	30	
1,1,2-Trichloroethane	103	5.0	100	0	103	75-125	103.2	0.243	30	
1,1-Dichloroethane	90.35	5.0	100	0	90.4	70-135	92.2	2.03	30	
1,1-Dichloroethene	97	5.0	100	0	97	70-130	97.55	0.565	30	
1,1-Dichloropropene	99.7	5.0	100	0	99.7	75-130	100.4	0.7	30	
1,2,3-Trichlorobenzene	103	15	100	0	103	55-140	111	7.38	30	
1,2,3-Trichloropropane	105.2	5.0	100	0	105	75-125	106.4	1.13	30	
1,2,4-Trichlorobenzene	96.85	5.0	100	0	96.8	65-135	106.2	9.26	30	
1,2,4-Trimethylbenzene	92.4	5.0	100	0	92.4	75-130	93.45	1.13	30	
1,2-Dibromo-3-chloropropane	113.4	5.0	100	0	113	50-130	114	0.527	30	
1,2-Dibromoethane	105	5.0	100	0	105	80-120	106	0.9	30	
1,2-Dichlorobenzene	97.5	5.0	100	0	97.5	70-120	97.15	0.36	30	
1,2-Dichloroethane	100.4	5.0	100	0	100	70-130	101	0.497	30	
1,2-Dichloropropane	97.45	10	100	0	97.4	75-125	98.5	1.07	30	
1,3,5-Trimethylbenzene	93.6	5.0	100	0	93.6	75-130	95.2	1.69	30	
1,3-Dichlorobenzene	101.9	10	100	0	102	75-125	100.6	1.33	30	
1,3-Dichloropropane	101	5.0	100	0	101	75-125	102.6	1.52	30	
1,4-Dichlorobenzene	99.35	10	100	0	99.4	75-125	97.75	1.62	30	
2,2-Dichloropropane	94.1	5.0	100	0	94.1	70-135	96.2	2.21	30	
2-Butanone	87.4	25	100	0	87.4	30-150	89.5	2.37	30	
2-Chlorotoluene	100	10	100	0	100	75-125	99.3	0.702	30	
2-Hexanone	91.35	25	100	0	91.4	55-130	93.2	2	30	
4-Chlorotoluene	99.35	5.0	100	0	99.4	75-135	100.8	1.5	30	
4-Methyl-2-pentanone	120.6	25	100	0	121	60-135	121.4	0.661	30	
Acetone	104.6	100	100	0	105	40-140	104.4	0.191	30	
Acrylonitrile	98.45	5.0	100	0	98.4	70-135	100	1.61	30	
Benzene	98.6	5.0	100	0	98.6	80-120	99.35	0.758	30	
Bromobenzene	98.2	5.0	100	0	98.2	75-125	99.7	1.52	30	
Bromochloromethane	92.45	5.0	100	0	92.4	65-130	95.2	2.93	30	
Bromodichloromethane	103.8	5.0	100	0	104	75-120	104	0.289	30	
Bromoform	102	5.0	100	0	102	70-130	107.6	5.34	30	
Carbon disulfide	101.4	12	100	0	101	35-165	102	0.541	30	
Carbon tetrachloride	97.8	5.0	100	0	97.8	65-140	99	1.22	30	
Chlorobenzene	100.4	5.0	100	0	100	80-120	101.3	0.892	30	
Chloroethane	74.7	5.0	100	0	74.7	60-135	77.9	4.19	30	
Chloroform	93.4	5.0	100	0	93.4	65-135	94.75	1.44	30	
Chloromethane	69.25	5.0	100	0	69.2	70-125	68.85	0.579	30	S
cis-1,2-Dichloroethene	91.65	5.0	100	0	91.6	70-125	92.85	1.3	30	
cis-1,3-Dichloropropene	97.8	5.0	100	0	97.8	70-130	102.5	4.69	30	
Dibromochloromethane	96.95	5.0	100	0	97	60-135	98.15	1.23	30	

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89818** Instrument ID **VMS7** Method: **SW8260**

Dibromomethane	98.2	5.0	100	0	98.2	75-125	99.15	0.963	30
Dichlorodifluoromethane	68.45	5.0	100	0	68.4	30-155	68.1	0.513	30
Ethylbenzene	99.1	5.0	100	0	99.1	75-125	100.4	1.3	30
Hexachlorobutadiene	102	25	100	0	102	50-140	104.2	2.04	30
Hexachloroethane	101.4	5.0	100	0	101	70-135	104.4	2.87	30
Iodomethane	87.15	25	100	0	87.2	70-135	85.9	1.44	30
Isopropylbenzene	95.65	5.0	100	0	95.6	75-125	96.45	0.833	30
m,p-Xylene	198.8	10	200	0	99.4	75-130	199.5	0.377	30
Methyl tert-butyl ether	94.4	25	100	0	94.4	65-125	95.75	1.42	30
Methylene chloride	95.55	25	100	3.35	92.2	55-140	96.95	1.45	30
n-Butylbenzene	99.25	5.0	100	0	99.2	70-135	96.35	2.97	30
n-Propylbenzene	98.05	5.0	100	0	98	70-130	98.3	0.255	30
Naphthalene	95.9	25	100	0	95.9	55-140	98.05	2.22	30
o-Xylene	95.4	5.0	100	0	95.4	80-120	96.35	0.991	30
p-Isopropyltoluene	99.75	10	100	0	99.8	75-130	97.4	2.38	30
sec-Butylbenzene	95.45	10	100	0	95.4	70-125	96.25	0.835	30
Styrene	94.55	5.0	100	0	94.6	65-135	94.4	0.159	30
tert-Butylbenzene	96.4	10	100	0	96.4	70-130	96.9	0.517	30
Tetrachloroethene	182.5	10	100	81.8	101	45-150	185.8	1.79	30
Tetrahydrofuran	102.4	50	100	0	102	70-135	97.45	4.95	30
Toluene	95.05	5.0	100	0	95	75-120	97.8	2.85	30
trans-1,2-Dichloroethene	95.85	5.0	100	0	95.8	60-140	98.3	2.52	30
trans-1,3-Dichloropropene	98.25	5.0	100	0	98.2	55-140	99.95	1.72	30
trans-1,4-Dichloro-2-butene	103.2	25	100	0	103	70-135	133.6	25.8	30
Trichloroethene	103.6	5.0	100	0	104	70-125	105.4	1.77	30
Trichlorofluoromethane	65.35	5.0	100	0	65.4	60-145	67.7	3.53	30
Vinyl chloride	86.05	5.0	100	0	86	50-145	86.65	0.695	30
Xylenes, Total	294.2	10	300	0	98	75-130	295.8	0.576	30
Surr: 1,2-Dichloroethane-d4	*490.2*	0	*500*	0	*98*	*70-120*	486.8	*0.686*	*30*
Surr: 4-Bromofluorobenzene	*499.6*	0	*500*	0	*99.9*	*75-120*	503.7	*0.807*	*30*
Surr: Dibromofluoromethane	*482*	0	*500*	0	*96.4*	*85-115*	502.7	*4.2*	*30*
Surr: Toluene-d8	*492*	0	*500*	0	*98.4*	*85-120*	497.6	*1.12*	*30*

The following samples were analyzed in this batch: 1104753-03A 1104753-07A

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

Client: Horizon Environmental
Work Order: 1104753
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89635** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS1-R89635** Units: **% of sample** Analysis Date: **5/2/2011 08:42 AM**
Client ID: Run ID: **MOIST_110502C** SeqNo: **1615481** 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-R89635** Units: **% of sample** Analysis Date: **5/2/2011 08:42 AM**
Client ID: Run ID: **MOIST_110502C** SeqNo: **1615477** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1104753-02B DUP** Units: **% of sample** Analysis Date: **5/2/2011 08:42 AM**
Client ID: **RO-FD-VS-37** Run ID: **MOIST_110502C** SeqNo: **1615470** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	21.01	0.050	0	0	0	0-0	21.68	3.14	20	

The following samples were analyzed in this batch:

1104753-01B	1104753-02B	1104753-03B
1104753-04B	1104753-05B	1104753-06B

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

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Chain of Custody Form

Page _____ of _____

COC ID: 11144

☐ **ALS Environmental**
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Tel: +1 616 399 6070
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ALS Project Manager: | ALS Work Order #: 1104753

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Reclamation Oil	A	VOC'S
Work Order		Project Number		B	PCBs
Company Name	Horizon Environmental	Bill To Company	Horizon Environmental	C	Arsenic
Send Report To	Bill Davidson	Invoice Attn	Accounts Payable	D	LEAD
Address	4771 50th Street	Address	4771 50th Street	E	
				F	
City/State/Zip	Grand Rapids, MI 49512	City/State/Zip	Grand Rapids, MI 49512	G	
Phone	(616) 554-3210	Phone	(616) 554-3210	H	
Fax	(616) 554-3211	Fax	(616) 554-3211	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	RO-S-VS-37	4-29-11	1255	Soil	METHANOL	3	X	X	X	X							
2	RO-FD-VS-37		1250			3	X	X	X	X							
3	RO-S-VS-42		1235			3	X	X	X	X							
4	RO-S-VS-43		1230			3	X	X	X	X							
5	RO-S-VS-44		1225			3	X	X	X	X							
6	RO-S-VS-45		1220			3	X	X	X	X							
7	RO-MB-06			METHANOL		1	X										
8																	
9																	
10																	

Sampler(s) Please Print & Sign: M Potter Mike Potter

Shipment Method:

Required Turnaround Time: (Check Box) STANDARD ☐ Other _____ ☐ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour

Results Due Date:

Notes:

Relinquished by: M Potter	Date: 4-29-11	Time: 2:33p	Received by: M Potter
Relinquished by: M Potter	Date: 4/29/11	Time:	Received by (Laboratory): Joseph R 4/30/11 0830
Logged by (Laboratory):	Date: 4/30/11	Time: 0900	Checked by (Laboratory):

Cooler ID	Cooler Temp.
	3.2°C

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other _____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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CUSTODY SEAL
Date: 4/28/11 Time:
Name: [illegible]
Company:

Seal Broken By:
Date:

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL
Date: 4/27/11 Time:
Name: [illegible]
Company:

Seal Broken By:
Date:

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL
Date: 4/27/11 Time:
Name: [illegible]
Company:

Seal Broken By:
Date:

ALS Environmental
3352 128th Avenue
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CUSTODY SEAL
Date: 4/27/11 Time:
Name: [illegible]
Company:

Seal Broken By:
Date:

PLACE SERVICES	CITY	STATE	ZIP CODE	CITY	STATE	ZIP
	DECLARED VALUE $		ACCOUNT NO.		WEIGHT	CHARGES
AIR & GROUND COMBINED	ADD'L INSURANCE COST $					
CANCELLED CHECKS OR CASH LETTERS	PIECES	CONSIGNMENT NO. OR WHAT IS BEING SHIPPED (BOX, PACK, ENVELOPE)				
OTHER (LIST COMMODITIES)						
SPECIAL INSTRUCTIONS						

☐ PREPAID ☑ BILL TO ACCT. ☐ COLLECT

TOTAL $

RECEIVED, Subject to rates and tariffs in effect on the date hereof.

PICKED UP BY	DATE	TIME
DRIVER: [illegible]	4/27/11	A.M.
ROUTE #: [illegible]		P.M.

RECEIVED BY	DATE	TIME
		A.M.
ROUTE #:		P.M.

The property described above, in apparent good order, except as noted (contents and conditions of packages unknown), marked, consigned and destined as shown below, which said company agrees to carry to its usual place of delivery at said destination if within the territory of its highway operations. It is mutually agreed as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions of the carrier's tariff, which are hereby agreed to by the shipper and accepted for himself and his assigns.

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HORIZONENV-GR** Date/Time Received: **30-Apr-11 08:30**

Work Order: **1104753** Received by: **JR**

Checklist completed by Joseph Ribar (eSignature) 30-Apr-11 (Date) Reviewed by: Joseph Ribar (eSignature) 01-May-11 (Date)

Matrices: SOIL
Carrier name: City Transfer

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.2 C		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

DATA VALIDATION REPORT

RECLAMATION OIL SITE
6472 SELKIRK STREET
DETROIT, MICHIGAN

Date: May 18, 2011
Laboratory: ALS Laboratory Group (ALS), Holland, Michigan
Laboratory Work Order #: 1104709
Data Validation Performed By: Karen Hathaway, Horizon Environmental

This data validation report has been prepared by Horizon Environmental Corporation on behalf of the Respondents to the Administrative Settlement Agreement and Order on Consent for Removal Action Docket No. V-W-10-C-955 (Settlement Agreement) entered into by the U.S. Environmental Protection Agency (U.S. EPA) and Respondents[1] with an effective date of September 30, 2010.

This report documents the data validation for 2 soil samples (plus one duplicate sample and one methanol trip blank) collected from the Reclamation Oil Site that were analyzed for the following parameters by U.S. Environmental Protection Agency (U.S. EPA) methods:

- Target Compound List (TCL) Volatile Organic Compounds (VOC) by SW-846 Method 8260B;
- Polychlorinated biphenyls (PCB) by SW-846 Method 8082; and
- Arsenic and lead by SW-846 Method 6020A.

All of the collected samples were analyzed by the laboratory (100% completeness). A Level II data package was requested from ALS. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

VOCs BY SW-846 METHOD 8260B

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

[1] The Respondents consist of Univar USA Inc., SPX Corporation, BorgWarner Inc., and Ford Motor Company.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
RO-S-VS-39	1104709-01	Soil	4/25/2011	5/3-4/2011
RO-S-VS-41	1104709-02	Soil	4/28/2011	5/3-4/2011
RO-FD-VS-41	1104709-03	Soil	4/28/2011	5/3-4/2011
RO-MB-05	1104709-04	Soil	4/28/2011	5/3-4/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection.

3. Blanks

The method blanks were free of target compound contamination above the reporting limit. Hexachlorobutadiene and naphthalene were detected in the method blanks below the practical quantitation limits (PQLs). No qualifications are required because either 1) the investigative results were non-detect at limits higher than the blank detection, or 2) the compounds were detected at much higher concentrations in the investigative samples.

The methanol blank RO-MB-05 was free of target compound contamination above the reporting limit.

4. Surrogate Results

The surrogate recovery results were within the laboratory-established quality control (QC) limits.

5. Laboratory Control Sample (LCS) Results

The relative percent difference (RPD) of trans-1,4-dichloro-2-butene in the LCSD associated with the samples analyzed on May 3, 2011 was outside the laboratory RPD limit. For analyses of trans-1,4-dichloro-2-butene analyzed on May 3, 2011, non-detect quantitation limits were flagged "UJ" as estimated.

6. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

The MS/MSD results associated with the samples analyzed on May 3, 2011 had recoveries or RPDs outside QC limits for the following: 1,1,2,2-tetrachloroethane, 1,2,3-trichloropropane, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 2-butanone, 2-chlorotoluene, 2-hexanone, 4-chlorotoluene, 4-methyl-2-pentanone, acetone, acrylonitrile, bromobenzene, bromoform, chloromethane, dibromomethane, iodomethane, sec-butylbenzene, tetrahydrofuran, toluene, trans-1,4-dichloro-2-butene. For samples

analyzed on May 3, 2011, quantitation limits for non-detected results for these compounds were flagged "UJ" as estimated and detections for these compounds were flagged "J" as estimated.

7. Field Duplicate Results

A field duplicate sample was collected at the frequency specified in the QAPP. Sample RO-FD-VS-41 is a duplicate of sample RO-S-VS-41. Field duplicate sample RO-FD-VS-41 showed good correlation with the investigative sample for most compounds. No qualification of the results is needed.

8. Overall Assessment

The VOC data are acceptable for use as qualified based on the information received.

PCBS BY SW-846 METHOD 8082

1. Samples

The following table summarizes the samples for which this data validation was conducted.

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
RO-S-VS-39	1104709-01	Soil	4/25/2011	5/2/2011	5/2/2011
RO-S-VS-41	1104709-02	Soil	4/28/2011	5/2/2011	5/2/2011
RO-FD-VS-41	1104709-03	Soil	4/28/2011	5/2/2011	5/2/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

3. Blanks

The method blank was free of target compound contamination above the reporting limit.

4. Surrogates

The surrogate recovery results were within the laboratory-established QC limits.

5. LCS Results

The LCS recoveries were within the laboratory-established QC limits.

6. MS and MSD Results

Percent recoveries and RPDs for the MS/MSD samples were within laboratory QC limits.

7. Field Duplicate Results

Field duplicate samples for PCB analysis were collected at the frequency specified in the QAPP. Sample RO-FD-VS-41 is a duplicate of sample RO-S-VS-41. Field duplicate sample RO-FD-VS-41 showed poor correlation with the investigative sample (greater than 35% difference for Aroclor 1254). This poor correlation in duplicate results was attributed to the heterogeneous nature of the sample location. Because the detection was well below the regulatory criteria, no qualification of the data was conducted.

8. Overall Assessment

The PCB data are acceptable for use based on the information received.

ARSENIC AND LEAD BY SW-846 METHOD 6020A

1. Samples

The following table summarizes the samples for which this data validation was conducted.

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
RO-S-VS-39	1104709-01	Soil	4/25/2011	4/29/2011	5/3/2011
RO-S-VS-41	1104709-02	Soil	4/28/2011	4/29/2011	5/3/2011
RO-FD-VS-41	1104709-03	Soil	4/28/2011	5/2/2011	5/2/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 180 days from sample collection to analysis.

3. Blanks

The method blanks were free of target compound contamination above the reporting limits.

4. LCS Results

The LCS recoveries were within the laboratory-established QC limits.

5. MS and MSD Results

Arsenic and lead recoveries were outside laboratory QC limits for the MS/MSD samples analyzed on May 2, 2011. For samples analyzed for arsenic and lead on May 2, 2011, detected results were flagged "J" as estimated.

6. Field Duplicate Results

Field duplicate samples for metals analysis were collected at the frequency specified in the QAPP. Sample RO-FD-VS-41 is a duplicate of sample RO-S-VS-41. Field duplicate sample RO-FD-VS-41 showed good correlation for arsenic and lead in the investigative sample.

7. Overall Assessment

The metals data are acceptable for use as qualified based on the information received.

DISCREPANCY FROM QAPP

The sample identification codes on the chain-of-custody (COC) for the field duplicate sample and methanol blank did not follow the field identification system provided in the QAPP. Notations were made on the COC, the laboratory was notified, and the sample identification codes were revised accordingly. No qualification of the data is needed. The Horizon Field Team Leader was informed of the sample identification code discrepancies so that corrective measures could be taken for future sampling events.

ATTACHMENT

ALS LABORATORY GROUP
RESULTS SUMMARY WITH QUALIFIERS

ALS Environmental

17-May-2011

Bill Davidson
Horizon Environmental
4771 50th Street
Grand Rapids, MI 49512

Re: **Reclamation Oil** Work Order: **1104709**

Dear Bill,

ALS Environmental received 4 samples on 29-Apr-2011 07:30 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.

QC sample results for this data met 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 36.

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

Sincerely,

Joseph Ribar

Electronically approved by: Joseph Ribar

Joseph Ribar
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

Certificate No: IL100452

ALS Group USA, Corp

Date: 17-May-11

Client: Horizon Environmental
Project: Reclamation Oil
Work Order: **1104709**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1104709-01	RO-S-VS-39	Soil		4/25/2011 11:00	4/29/2011 07:30	☐
1104709-02	RO-S-VS-41	Soil		4/28/2011 13:10	4/29/2011 07:30	☐
1104709-03	RO-FD-VS-41	Soil		4/28/2011 13:15	4/29/2011 07:30	☐
1104709-04	RO-MB-05	Methanol		4/28/2011	4/29/2011 07:30	☐

Client: Horizon Environmental
Project: Reclamation Oil
Work Order: 1104709

Case Narrative

QC Summary

Metals by ICP-MS

Batch 33064, Method 6020, Sample 1104672-06 MS/MSD: Recoveries for compounds were outside control limits due matrix interference.

Volatile Organic Compounds

Batch R89623, Method 8260, Sample VLCSDW2-110502: trans-1,4-Dichloro-2-butene recovery in the LCSD is "R" flagged although both recoveries in the LCS and LCSD were within control limits. Recoveries for this compound were also within control limits in the MS and MSD. Data does not need qualification.

Batch R89623, Method 8260, Sample 1104700-03A MS: Compounds out due to carryover from previous sample. Sample volume was consumed, so the MS was not able to be rerun. "R" flags in the MSD can also be attributed to the carryover.Batch R89623, Method VOC_8260_W, Sample 1104700-03A MSD: "R" flags in MSD due to foamy carryover in MS.

ALS Group USA, Corp

Date: 17-May-11

Client: Horizon Environmental
Project: Reclamation Oil
WorkOrder: **1104709**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	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 detected below quantitation 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

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
TDL	Target Detection Limit

Units Reported	Description
% of sample	Percent of Sample
µg/Kg	Micrograms per Kilogram
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-39
Collection Date: 4/25/2011 11:00 AM

Work Order: 1104709
Lab ID: 1104709-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **5/2/2011**	Analyst: **JD**
Aroclor 1016	ND		43	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1221	ND		43	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1232	ND		43	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1242	ND		43	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1248	ND		43	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1254	ND		43	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1260	ND		43	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1262	ND		43	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1268	ND		43	µg/Kg-dry	1	5/2/2011 04:44 PM
Surr: Decachlorobiphenyl	*93.1*		*40-140*	*%REC*	1	5/2/2011 04:44 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **4/29/2011**	Analyst: **RH**
Arsenic	**3.0**		**0.18**	**mg/Kg-dry**	1	5/3/2011 04:16 AM
Lead	**120**		**0.018**	**mg/Kg-dry**	1	5/3/2011 04:16 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
1,1,1,2-Tetrachloroethane	ND		170	µg/Kg-dry	100	5/3/2011 05:52 AM
1,1,1-Trichloroethane	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
1,1,2,2-Tetrachloroethane	ND	UJ	110	µg/Kg-dry	100	5/3/2011 05:52 AM
1,1,2-Trichloroethane	ND		56	µg/Kg-dry	100	5/3/2011 05:52 AM
1,1,2-Trichlorotrifluoroethane	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
1,1-Dichloroethane	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
1,1-Dichloroethene	ND		56	µg/Kg-dry	100	5/3/2011 05:52 AM
1,1-Dichloropropene	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
1,2,3-Trichlorobenzene	ND		220	µg/Kg-dry	100	5/3/2011 05:52 AM
1,2,3-Trichloropropane	ND	UJ	220	µg/Kg-dry	100	5/3/2011 05:52 AM
1,2,4-Trichlorobenzene	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
1,2,4-Trimethylbenzene	ND	UJ	110	µg/Kg-dry	100	5/3/2011 05:52 AM
1,2-Dibromo-3-chloropropane	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
1,2-Dibromoethane	ND		170	µg/Kg-dry	100	5/3/2011 05:52 AM
1,2-Dichlorobenzene	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
1,2-Dichloroethane	ND		56	µg/Kg-dry	100	5/3/2011 05:52 AM
1,2-Dichloropropane	ND		56	µg/Kg-dry	100	5/3/2011 05:52 AM
1,3,5-Trimethylbenzene	ND	UJ	110	µg/Kg-dry	100	5/3/2011 05:52 AM
1,3-Dichlorobenzene	ND		56	µg/Kg-dry	100	5/3/2011 05:52 AM
1,3-Dichloropropane	ND		56	µg/Kg-dry	100	5/3/2011 05:52 AM
1,4-Dichlorobenzene	ND		56	µg/Kg-dry	100	5/3/2011 05:52 AM
2,2-Dichloropropane	ND		56	µg/Kg-dry	100	5/3/2011 05:52 AM
2-Butanone	ND	UJ	840	µg/Kg-dry	100	5/3/2011 05:52 AM
2-Chlorotoluene	ND	UJ	56	µg/Kg-dry	100	5/3/2011 05:52 AM

KH 5/18/11

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-39
Collection Date: 4/25/2011 11:00 AM

Work Order: 1104709
Lab ID: 1104709-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Hexanone	ND	UJ	560	µg/Kg-dry	100	5/3/2011 05:52 AM
2-Methylnaphthalene	ND		330	µg/Kg-dry	100	5/3/2011 05:52 AM
4-Chlorotoluene	ND	UJ	220	µg/Kg-dry	100	5/3/2011 05:52 AM
4-Methyl-2-pentanone	ND	UJ	560	µg/Kg-dry	100	5/3/2011 05:52 AM
Acetone	ND	UJ	500	µg/Kg-dry	100	5/3/2011 05:52 AM
Acrylonitrile	ND	UJ	110	µg/Kg-dry	100	5/3/2011 05:52 AM
Benzene	ND		56	µg/Kg-dry	100	5/3/2011 05:52 AM
Bromobenzene	ND	UJ	170	µg/Kg-dry	100	5/3/2011 05:52 AM
Bromochloromethane	ND		170	µg/Kg-dry	100	5/3/2011 05:52 AM
Bromodichloromethane	ND		170	µg/Kg-dry	100	5/3/2011 05:52 AM
Bromoform	ND	UJ	110	µg/Kg-dry	100	5/3/2011 05:52 AM
Carbon disulfide	ND		170	µg/Kg-dry	100	5/3/2011 05:52 AM
Carbon tetrachloride	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
Chlorobenzene	ND		170	µg/Kg-dry	100	5/3/2011 05:52 AM
Chloroethane	ND		330	µg/Kg-dry	100	5/3/2011 05:52 AM
Chloroform	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
Chloromethane	ND	UJ	330	µg/Kg-dry	100	5/3/2011 05:52 AM
cis-1,2-Dichloroethene	ND		220	µg/Kg-dry	100	5/3/2011 05:52 AM
cis-1,3-Dichloropropene	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
Dibromochloromethane	ND		220	µg/Kg-dry	100	5/3/2011 05:52 AM
Dibromomethane	ND	UJ	220	µg/Kg-dry	100	5/3/2011 05:52 AM
Dichlorodifluoromethane	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
Diethyl ether	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
Diisopropyl ether	ND		560	µg/Kg-dry	100	5/3/2011 05:52 AM
Ethyl tert butyl ether	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
Ethylbenzene	ND		220	µg/Kg-dry	100	5/3/2011 05:52 AM
Heptane	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
Hexachlorobutadiene	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
Hexachloroethane	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
Hexane	ND		330	µg/Kg-dry	100	5/3/2011 05:52 AM
Iodomethane	ND	UJ	280	µg/Kg-dry	100	5/3/2011 05:52 AM
Isopropylbenzene	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
m,p-Xylene	ND		220	µg/Kg-dry	100	5/3/2011 05:52 AM
Methyl tert-butyl ether	ND		170	µg/Kg-dry	100	5/3/2011 05:52 AM
Methylene chloride	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
n-Butylbenzene	ND		56	µg/Kg-dry	100	5/3/2011 05:52 AM
n-Propylbenzene	ND		220	µg/Kg-dry	100	5/3/2011 05:52 AM
Naphthalene	ND		220	µg/Kg-dry	100	5/3/2011 05:52 AM
o-Xylene	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
p-Isopropyltoluene	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM

KA 5/18/11

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-39
Collection Date: 4/25/2011 11:00 AM

Work Order: 1104709
Lab ID: 1104709-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	ND	UJ	110	µg/Kg-dry	100	5/3/2011 05:52 AM
Styrene	ND		170	µg/Kg-dry	100	5/3/2011 05:52 AM
tert-Amyl methyl ether	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
tert-Butyl alcohol	ND		560	µg/Kg-dry	100	5/3/2011 05:52 AM
tert-Butylbenzene	ND		170	µg/Kg-dry	100	5/3/2011 05:52 AM
Tetrachloroethene	ND		56	µg/Kg-dry	100	5/3/2011 05:52 AM
Tetrahydrofuran	ND	UJ	170	µg/Kg-dry	100	5/3/2011 05:52 AM
Toluene	ND	UJ	170	µg/Kg-dry	100	5/3/2011 05:52 AM
trans-1,2-Dichloroethene	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
trans-1,3-Dichloropropene	ND		170	µg/Kg-dry	100	5/3/2011 05:52 AM
trans-1,4-Dichloro-2-butene	ND	UJ	390	µg/Kg-dry	100	5/3/2011 05:52 AM
Trichloroethene	**200**		**56**	**µg/Kg-dry**	100	5/3/2011 05:52 AM
Trichlorofluoromethane	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
Vinyl acetate	ND		1,700	µg/Kg-dry	100	5/3/2011 05:52 AM
Vinyl chloride	ND		45	µg/Kg-dry	100	5/3/2011 05:52 AM
1,2-Dichloroethene, Total	ND		280	µg/Kg-dry	100	5/3/2011 05:52 AM
1,3-Dichloropropene, Total	ND		110	µg/Kg-dry	100	5/3/2011 05:52 AM
Xylenes, Total	ND		330	µg/Kg-dry	100	5/3/2011 05:52 AM
Surr: 1,2-Dichloroethane-d4	*100*		*70-120*	*%REC*	100	5/3/2011 05:52 AM
Surr: 4-Bromofluorobenzene	*98.0*		*75-120*	*%REC*	100	5/3/2011 05:52 AM
Surr: Dibromofluoromethane	*101*		*85-115*	*%REC*	100	5/3/2011 05:52 AM
Surr: Toluene-d8	*98.6*		*85-115*	*%REC*	100	5/3/2011 05:52 AM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**10**		**0.050**	**% of sample**	1	4/29/2011 09:59 AM

RA 5/18/11

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-41
Collection Date: 4/28/2011 01:10 PM

Work Order: 1104709
Lab ID: 1104709-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **5/2/2011**	Analyst: **JD**
Aroclor 1016	ND		48	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1221	ND		48	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1232	ND		48	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1242	ND		48	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1248	ND		48	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1254	**94**		**48**	**µg/Kg-dry**	1	5/2/2011 04:44 PM
Aroclor 1260	ND		48	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1262	ND		48	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1268	ND		48	µg/Kg-dry	1	5/2/2011 04:44 PM
Surr: Decachlorobiphenyl	*81.1*		*40-140*	*%REC*	1	5/2/2011 04:44 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **4/29/2011**	Analyst: **RH**
Arsenic	**0.67**		**0.18**	**mg/Kg-dry**	1	5/3/2011 04:20 AM
Lead	**3.7**		**0.018**	**mg/Kg-dry**	1	5/3/2011 04:20 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
1,1,1,2-Tetrachloroethane	ND		180	µg/Kg-dry	100	5/3/2011 06:17 AM
1,1,1-Trichloroethane	**140**		**120**	**µg/Kg-dry**	100	5/3/2011 06:17 AM
1,1,2,2-Tetrachloroethane	ND	UJ	120	µg/Kg-dry	100	5/3/2011 06:17 AM
1,1,2-Trichloroethane	ND		61	µg/Kg-dry	100	5/3/2011 06:17 AM
1,1,2-Trichlorotrifluoroethane	ND		120	µg/Kg-dry	100	5/3/2011 06:17 AM
1,1-Dichloroethane	ND		120	µg/Kg-dry	100	5/3/2011 06:17 AM
1,1-Dichloroethene	ND		61	µg/Kg-dry	100	5/3/2011 06:17 AM
1,1-Dichloropropene	ND		120	µg/Kg-dry	100	5/3/2011 06:17 AM
1,2,3-Trichlorobenzene	ND		240	µg/Kg-dry	100	5/3/2011 06:17 AM
1,2,3-Trichloropropane	ND	UJ	240	µg/Kg-dry	100	5/3/2011 06:17 AM
1,2,4-Trichlorobenzene	ND		120	µg/Kg-dry	100	5/3/2011 06:17 AM
1,2,4-Trimethylbenzene	**51,000**		**1,200**	**µg/Kg-dry**	1000	5/4/2011 07:22 AM
1,2-Dibromo-3-chloropropane	ND		120	µg/Kg-dry	100	5/3/2011 06:17 AM
1,2-Dibromoethane	ND		180	µg/Kg-dry	100	5/3/2011 06:17 AM
1,2-Dichlorobenzene	ND		120	µg/Kg-dry	100	5/3/2011 06:17 AM
1,2-Dichloroethane	ND		61	µg/Kg-dry	100	5/3/2011 06:17 AM
1,2-Dichloropropane	ND		61	µg/Kg-dry	100	5/3/2011 06:17 AM
1,3,5-Trimethylbenzene	**17,000**		**1,200**	**µg/Kg-dry**	1000	5/4/2011 07:22 AM
1,3-Dichlorobenzene	ND		61	µg/Kg-dry	100	5/3/2011 06:17 AM
1,3-Dichloropropane	ND		61	µg/Kg-dry	100	5/3/2011 06:17 AM
1,4-Dichlorobenzene	ND		61	µg/Kg-dry	100	5/3/2011 06:17 AM
2,2-Dichloropropane	ND		61	µg/Kg-dry	100	5/3/2011 06:17 AM
2-Butanone	ND	UJ	910	µg/Kg-dry	100	5/3/2011 06:17 AM
2-Chlorotoluene	ND	UJ	61	µg/Kg-dry	100	5/3/2011 06:17 AM

KH 5/18/11

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-41
Collection Date: 4/28/2011 01:10 PM

Work Order: 1104709
Lab ID: 1104709-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Hexanone	ND	UJ	610	µg/Kg-dry	100	5/3/2011 06:17 AM
2-Methylnaphthalene	**40,000**		**3,600**	**µg/Kg-dry**	1000	5/4/2011 07:22 AM
4-Chlorotoluene	ND	UJ	240	µg/Kg-dry	100	5/3/2011 06:17 AM
4-Methyl-2-pentanone	ND	UJ	610	µg/Kg-dry	100	5/3/2011 06:17 AM
Acetone	ND	UJ	540	µg/Kg-dry	100	5/3/2011 06:17 AM
Acrylonitrile	ND	UJ	120	µg/Kg-dry	100	5/3/2011 06:17 AM
Benzene	ND		61	µg/Kg-dry	100	5/3/2011 06:17 AM
Bromobenzene	ND	UJ	180	µg/Kg-dry	100	5/3/2011 06:17 AM
Bromochloromethane	ND		180	µg/Kg-dry	100	5/3/2011 06:17 AM
Bromodichloromethane	ND		180	µg/Kg-dry	100	5/3/2011 06:17 AM
Bromoform	ND	UJ	120	µg/Kg-dry	100	5/3/2011 06:17 AM
Carbon disulfide	ND		180	µg/Kg-dry	100	5/3/2011 06:17 AM
Carbon tetrachloride	ND		120	µg/Kg-dry	100	5/3/2011 06:17 AM
Chlorobenzene	ND		180	µg/Kg-dry	100	5/3/2011 06:17 AM
Chloroethane	ND		360	µg/Kg-dry	100	5/3/2011 06:17 AM
Chloroform	ND		120	µg/Kg-dry	100	5/3/2011 06:17 AM
Chloromethane	ND	UJ	360	µg/Kg-dry	100	5/3/2011 06:17 AM
cis-1,2-Dichloroethene	ND		240	µg/Kg-dry	100	5/3/2011 06:17 AM
cis-1,3-Dichloropropene	ND		120	µg/Kg-dry	100	5/3/2011 06:17 AM
Dibromochloromethane	ND		240	µg/Kg-dry	100	5/3/2011 06:17 AM
Dibromomethane	ND	UJ	240	µg/Kg-dry	100	5/3/2011 06:17 AM
Dichlorodifluoromethane	ND		120	µg/Kg-dry	100	5/3/2011 06:17 AM
Diethyl ether	ND		120	µg/Kg-dry	100	5/3/2011 06:17 AM
Diisopropyl ether	ND		610	µg/Kg-dry	100	5/3/2011 06:17 AM
Ethyl tert butyl ether	ND		120	µg/Kg-dry	100	5/3/2011 06:17 AM
Ethylbenzene	**940**		**240**	**µg/Kg-dry**	100	5/3/2011 06:17 AM
Heptane	ND		120	µg/Kg-dry	100	5/3/2011 06:17 AM
Hexachlorobutadiene	ND		120	µg/Kg-dry	100	5/3/2011 06:17 AM
Hexachloroethane	ND		120	µg/Kg-dry	100	5/3/2011 06:17 AM
Hexane	ND		360	µg/Kg-dry	100	5/3/2011 06:17 AM
Iodomethane	ND	UJ	300	µg/Kg-dry	100	5/3/2011 06:17 AM
Isopropylbenzene	**590**		**120**	**µg/Kg-dry**	100	5/3/2011 06:17 AM
m,p-Xylene	**19,000**		**240**	**µg/Kg-dry**	100	5/3/2011 06:17 AM
Methyl tert-butyl ether	ND		180	µg/Kg-dry	100	5/3/2011 06:17 AM
Methylene chloride	ND		120	µg/Kg-dry	100	5/3/2011 06:17 AM
n-Butylbenzene	ND		61	µg/Kg-dry	100	5/3/2011 06:17 AM
n-Propylbenzene	**490**		**240**	**µg/Kg-dry**	100	5/3/2011 06:17 AM
Naphthalene	**43,000**		**2,400**	**µg/Kg-dry**	1000	5/4/2011 07:22 AM
o-Xylene	**14,000**		**1,200**	**µg/Kg-dry**	1000	5/4/2011 07:22 AM
p-Isopropyltoluene	**49,000**		**1,200**	**µg/Kg-dry**	1000	5/4/2011 07:22 AM

KA 5/18/11

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-41
Collection Date: 4/28/2011 01:10 PM

Work Order: 1104709
Lab ID: 1104709-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	**580**	J	**120**	**µg/Kg-dry**	100	5/3/2011 06:17 AM
Styrene	ND		180	µg/Kg-dry	100	5/3/2011 06:17 AM
tert-Amyl methyl ether	ND		120	µg/Kg-dry	100	5/3/2011 06:17 AM
tert-Butyl alcohol	ND		610	µg/Kg-dry	100	5/3/2011 06:17 AM
tert-Butylbenzene	ND		180	µg/Kg-dry	100	5/3/2011 06:17 AM
Tetrachloroethene	ND		61	µg/Kg-dry	100	5/3/2011 06:17 AM
Tetrahydrofuran	ND	UJ	180	µg/Kg-dry	100	5/3/2011 06:17 AM
Toluene	**3,500**	J	**180**	**µg/Kg-dry**	100	5/3/2011 06:17 AM
trans-1,2-Dichloroethene	ND		120	µg/Kg-dry	100	5/3/2011 06:17 AM
trans-1,3-Dichloropropene	ND		180	µg/Kg-dry	100	5/3/2011 06:17 AM
trans-1,4-Dichloro-2-butene	ND	UJ	420	µg/Kg-dry	100	5/3/2011 06:17 AM
Trichloroethene	ND		61	µg/Kg-dry	100	5/3/2011 06:17 AM
Trichlorofluoromethane	ND		120	µg/Kg-dry	100	5/3/2011 06:17 AM
Vinyl acetate	ND		1,800	µg/Kg-dry	100	5/3/2011 06:17 AM
Vinyl chloride	ND		48	µg/Kg-dry	100	5/3/2011 06:17 AM
1,2-Dichloroethene, Total	ND		300	µg/Kg-dry	100	5/3/2011 06:17 AM
1,3-Dichloropropene, Total	ND		120	µg/Kg-dry	100	5/3/2011 06:17 AM
Xylenes, Total	**31,000**		**3,600**	**µg/Kg-dry**	1000	5/4/2011 07:22 AM
Surr: 1,2-Dichloroethane-d4	*101*		*70-120*	*%REC*	100	5/3/2011 06:17 AM
Surr: 1,2-Dichloroethane-d4	*98.5*		*70-120*	*%REC*	1000	5/4/2011 07:22 AM
Surr: 4-Bromofluorobenzene	*104*		*75-120*	*%REC*	100	5/3/2011 06:17 AM
Surr: 4-Bromofluorobenzene	*100*		*75-120*	*%REC*	1000	5/4/2011 07:22 AM
Surr: Dibromofluoromethane	*100*		*85-115*	*%REC*	100	5/3/2011 06:17 AM
Surr: Dibromofluoromethane	*99.9*		*85-115*	*%REC*	1000	5/4/2011 07:22 AM
Surr: Toluene-d8	*97.8*		*85-115*	*%REC*	1000	5/4/2011 07:22 AM
Surr: Toluene-d8	*102*		*85-115*	*%REC*	100	5/3/2011 06:17 AM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**17**		**0.050**	**% of sample**	1	4/29/2011 09:59 AM

KA 5/18/11

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-FD-VS-41
Collection Date: 4/28/2011 01:15 PM

Work Order: 1104709
Lab ID: 1104709-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **5/2/2011**	Analyst: **JD**
Aroclor 1016	ND		51	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1221	ND		51	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1232	ND		51	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1242	ND		51	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1248	ND		51	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1254	ND		51	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1260	ND		51	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1262	ND		51	µg/Kg-dry	1	5/2/2011 04:44 PM
Aroclor 1268	ND		51	µg/Kg-dry	1	5/2/2011 04:44 PM
Surr: Decachlorobiphenyl	*92.1*		*40-140*	*%REC*	1	5/2/2011 04:44 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **5/2/2011**	Analyst: **CES** KA
Arsenic	**0.59**	J	**0.20**	**mg/Kg-dry**	1	5/2/2011 11:20 PM 5/17/11
Lead	**4.3**	J	**0.020**	**mg/Kg-dry**	1	5/2/2011 11:20 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
1,1,1,2-Tetrachloroethane	ND		200	µg/Kg-dry	100	5/3/2011 06:41 AM
1,1,1-Trichloroethane	ND		130	µg/Kg-dry	100	5/3/2011 06:41 AM
1,1,2,2-Tetrachloroethane	ND	UJ	130	µg/Kg-dry	100	5/3/2011 06:41 AM
1,1,2-Trichloroethane	ND		66	µg/Kg-dry	100	5/3/2011 06:41 AM
1,1,2-Trichlorotrifluoroethane	ND		130	µg/Kg-dry	100	5/3/2011 06:41 AM KA
1,1-Dichloroethane	ND		130	µg/Kg-dry	100	5/3/2011 06:41 AM 5/18/11
1,1-Dichloroethene	ND		66	µg/Kg-dry	100	5/3/2011 06:41 AM
1,1-Dichloropropene	ND		130	µg/Kg-dry	100	5/3/2011 06:41 AM
1,2,3-Trichlorobenzene	ND		260	µg/Kg-dry	100	5/3/2011 06:41 AM
1,2,3-Trichloropropane	ND	UJ	260	µg/Kg-dry	100	5/3/2011 06:41 AM
1,2,4-Trichlorobenzene	ND		130	µg/Kg-dry	100	5/3/2011 06:41 AM
1,2,4-Trimethylbenzene	**64,000**		**1,300**	**µg/Kg-dry**	1000	5/4/2011 07:50 AM
1,2-Dibromo-3-chloropropane	ND		130	µg/Kg-dry	100	5/3/2011 06:41 AM
1,2-Dibromoethane	ND		200	µg/Kg-dry	100	5/3/2011 06:41 AM
1,2-Dichlorobenzene	ND		130	µg/Kg-dry	100	5/3/2011 06:41 AM
1,2-Dichloroethane	ND		66	µg/Kg-dry	100	5/3/2011 06:41 AM
1,2-Dichloropropane	ND		66	µg/Kg-dry	100	5/3/2011 06:41 AM
1,3,5-Trimethylbenzene	**21,000**		**1,300**	**µg/Kg-dry**	1000	5/4/2011 07:50 AM
1,3-Dichlorobenzene	ND		66	µg/Kg-dry	100	5/3/2011 06:41 AM
1,3-Dichloropropane	ND		66	µg/Kg-dry	100	5/3/2011 06:41 AM
1,4-Dichlorobenzene	ND		66	µg/Kg-dry	100	5/3/2011 06:41 AM
2,2-Dichloropropane	ND		66	µg/Kg-dry	100	5/3/2011 06:41 AM
2-Butanone	ND	UJ	980	µg/Kg-dry	100	5/3/2011 06:41 AM
2-Chlorotoluene	ND	UJ	66	µg/Kg-dry	100	5/3/2011 06:41 AM

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-FD-VS-41
Collection Date: 4/28/2011 01:15 PM

Work Order: 1104709
Lab ID: 1104709-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Hexanone	ND	UJ	660	µg/Kg-dry	100	5/3/2011 06:41 AM
2-Methylnaphthalene	**56,000**		**3,900**	**µg/Kg-dry**	1000	5/4/2011 07:50 AM
4-Chlorotoluene	ND	UJ	260	µg/Kg-dry	100	5/3/2011 06:41 AM
4-Methyl-2-pentanone	ND	UJ	660	µg/Kg-dry	100	5/3/2011 06:41 AM
Acetone	ND	UJ	590	µg/Kg-dry	100	5/3/2011 06:41 AM
Acrylonitrile	ND	UJ	130	µg/Kg-dry	100	5/3/2011 06:41 AM
Benzene	ND		66	µg/Kg-dry	100	5/3/2011 06:41 AM
Bromobenzene	ND	UJ	200	µg/Kg-dry	100	5/3/2011 06:41 AM
Bromochloromethane	ND		200	µg/Kg-dry	100	5/3/2011 06:41 AM
Bromodichloromethane	ND		200	µg/Kg-dry	100	5/3/2011 06:41 AM
Bromoform	ND	UJ	130	µg/Kg-dry	100	5/3/2011 06:41 AM
Carbon disulfide	ND		200	µg/Kg-dry	100	5/3/2011 06:41 AM
Carbon tetrachloride	ND		130	µg/Kg-dry	100	5/3/2011 06:41 AM
Chlorobenzene	ND		200	µg/Kg-dry	100	5/3/2011 06:41 AM
Chloroethane	ND		390	µg/Kg-dry	100	5/3/2011 06:41 AM
Chloroform	ND		130	µg/Kg-dry	100	5/3/2011 06:41 AM
Chloromethane	ND	UJ	390	µg/Kg-dry	100	5/3/2011 06:41 AM
cis-1,2-Dichloroethene	ND		260	µg/Kg-dry	100	5/3/2011 06:41 AM
cis-1,3-Dichloropropene	ND		130	µg/Kg-dry	100	5/3/2011 06:41 AM
Dibromochloromethane	ND		260	µg/Kg-dry	100	5/3/2011 06:41 AM
Dibromomethane	ND	UJ	260	µg/Kg-dry	100	5/3/2011 06:41 AM
Dichlorodifluoromethane	ND		130	µg/Kg-dry	100	5/3/2011 06:41 AM
Diethyl ether	ND		130	µg/Kg-dry	100	5/3/2011 06:41 AM
Diisopropyl ether	ND		660	µg/Kg-dry	100	5/3/2011 06:41 AM
Ethyl tert butyl ether	ND		130	µg/Kg-dry	100	5/3/2011 06:41 AM
Ethylbenzene	**990**		**260**	**µg/Kg-dry**	100	5/3/2011 06:41 AM
Heptane	ND		130	µg/Kg-dry	100	5/3/2011 06:41 AM
Hexachlorobutadiene	ND		130	µg/Kg-dry	100	5/3/2011 06:41 AM
Hexachloroethane	ND		130	µg/Kg-dry	100	5/3/2011 06:41 AM
Hexane	ND		390	µg/Kg-dry	100	5/3/2011 06:41 AM
Iodomethane	ND	UJ	330	µg/Kg-dry	100	5/3/2011 06:41 AM
Isopropylbenzene	**670**		**130**	**µg/Kg-dry**	100	5/3/2011 06:41 AM
m,p-Xylene	**22,000**		**260**	**µg/Kg-dry**	100	5/3/2011 06:41 AM
Methyl tert-butyl ether	ND		200	µg/Kg-dry	100	5/3/2011 06:41 AM
Methylene chloride	ND		130	µg/Kg-dry	100	5/3/2011 06:41 AM
n-Butylbenzene	ND		66	µg/Kg-dry	100	5/3/2011 06:41 AM
n-Propylbenzene	**600**		**260**	**µg/Kg-dry**	100	5/3/2011 06:41 AM
Naphthalene	**56,000**		**2,600**	**µg/Kg-dry**	1000	5/4/2011 07:50 AM
o-Xylene	**17,000**		**1,300**	**µg/Kg-dry**	1000	5/4/2011 07:50 AM
p-Isopropyltoluene	**62,000**		**1,300**	**µg/Kg-dry**	1000	5/4/2011 07:50 AM

KA 5/18/11

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-FD-VS-41
Collection Date: 4/28/2011 01:15 PM

Work Order: 1104709
Lab ID: 1104709-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	ND	UJ	130	µg/Kg-dry	100	5/3/2011 06:41 AM
Styrene	ND		200	µg/Kg-dry	100	5/3/2011 06:41 AM
tert-Amyl methyl ether	ND		130	µg/Kg-dry	100	5/3/2011 06:41 AM
tert-Butyl alcohol	ND		660	µg/Kg-dry	100	5/3/2011 06:41 AM
tert-Butylbenzene	ND		200	µg/Kg-dry	100	5/3/2011 06:41 AM
Tetrachloroethene	ND		66	µg/Kg-dry	100	5/3/2011 06:41 AM
Tetrahydrofuran	ND	UJ	200	µg/Kg-dry	100	5/3/2011 06:41 AM
Toluene	**3,800**	J	**200**	**µg/Kg-dry**	100	5/3/2011 06:41 AM
trans-1,2-Dichloroethene	ND		130	µg/Kg-dry	100	5/3/2011 06:41 AM
trans-1,3-Dichloropropene	ND		200	µg/Kg-dry	100	5/3/2011 06:41 AM
trans-1,4-Dichloro-2-butene	ND	UJ	460	µg/Kg-dry	100	5/3/2011 06:41 AM
Trichloroethene	ND		66	µg/Kg-dry	100	5/3/2011 06:41 AM
Trichlorofluoromethane	ND		130	µg/Kg-dry	100	5/3/2011 06:41 AM
Vinyl acetate	ND		2,000	µg/Kg-dry	100	5/3/2011 06:41 AM
Vinyl chloride	ND		52	µg/Kg-dry	100	5/3/2011 06:41 AM
1,2-Dichloroethene, Total	ND		330	µg/Kg-dry	100	5/3/2011 06:41 AM
1,3-Dichloropropene, Total	ND		130	µg/Kg-dry	100	5/3/2011 06:41 AM
Xylenes, Total	**39,000**		**3,900**	**µg/Kg-dry**	1000	5/4/2011 07:50 AM
Surr: 1,2-Dichloroethane-d4	*98.8*		*70-120*	*%REC*	100	5/3/2011 06:41 AM
Surr: 1,2-Dichloroethane-d4	*94.6*		*70-120*	*%REC*	1000	5/4/2011 07:50 AM
Surr: 4-Bromofluorobenzene	*109*		*75-120*	*%REC*	100	5/3/2011 06:41 AM
Surr: 4-Bromofluorobenzene	*102*		*75-120*	*%REC*	1000	5/4/2011 07:50 AM
Surr: Dibromofluoromethane	*96.1*		*85-115*	*%REC*	100	5/3/2011 06:41 AM
Surr: Dibromofluoromethane	*94.4*		*85-115*	*%REC*	1000	5/4/2011 07:50 AM
Surr: Toluene-d8	*101*		*85-115*	*%REC*	1000	5/4/2011 07:50 AM
Surr: Toluene-d8	*102*		*85-115*	*%REC*	100	5/3/2011 06:41 AM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**24**		**0.050**	**% of sample**	1	4/29/2011 09:59 AM

KA 5/18/11

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-MB-05
Collection Date: 4/28/2011

Work Order: 1104709
Lab ID: 1104709-04
Matrix: METHANOL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
1,1,1,2-Tetrachloroethane	ND		150	µg/Kg	100	5/3/2011 02:15 AM
1,1,1-Trichloroethane	ND		100	µg/Kg	100	5/3/2011 02:15 AM
1,1,2,2-Tetrachloroethane	ND	UJ	100	µg/Kg	100	5/3/2011 02:15 AM
1,1,2-Trichloroethane	ND		50	µg/Kg	100	5/3/2011 02:15 AM
1,1,2-Trichlorotrifluoroethane	ND		100	µg/Kg	100	5/3/2011 02:15 AM
1,1-Dichloroethane	ND		100	µg/Kg	100	5/3/2011 02:15 AM
1,1-Dichloroethene	ND		50	µg/Kg	100	5/3/2011 02:15 AM
1,1-Dichloropropene	ND		100	µg/Kg	100	5/3/2011 02:15 AM
1,2,3-Trichlorobenzene	ND		200	µg/Kg	100	5/3/2011 02:15 AM
1,2,3-Trichloropropane	ND	UJ	200	µg/Kg	100	5/3/2011 02:15 AM
1,2,4-Trichlorobenzene	ND		100	µg/Kg	100	5/3/2011 02:15 AM
1,2,4-Trimethylbenzene	ND	UJ	100	µg/Kg	100	5/3/2011 02:15 AM
1,2-Dibromo-3-chloropropane	ND		100	µg/Kg	100	5/3/2011 02:15 AM
1,2-Dibromoethane	ND		150	µg/Kg	100	5/3/2011 02:15 AM
1,2-Dichlorobenzene	ND		100	µg/Kg	100	5/3/2011 02:15 AM
1,2-Dichloroethane	ND		50	µg/Kg	100	5/3/2011 02:15 AM
1,2-Dichloropropane	ND		50	µg/Kg	100	5/3/2011 02:15 AM
1,3,5-Trimethylbenzene	ND	UJ	100	µg/Kg	100	5/3/2011 02:15 AM
1,3-Dichlorobenzene	ND		50	µg/Kg	100	5/3/2011 02:15 AM
1,3-Dichloropropane	ND		50	µg/Kg	100	5/3/2011 02:15 AM
1,4-Dichlorobenzene	ND		50	µg/Kg	100	5/3/2011 02:15 AM
2,2-Dichloropropane	ND		50	µg/Kg	100	5/3/2011 02:15 AM
2-Butanone	ND	UJ	750	µg/Kg	100	5/3/2011 02:15 AM
2-Chlorotoluene	ND	UJ	50	µg/Kg	100	5/3/2011 02:15 AM
2-Hexanone	ND	UJ	500	µg/Kg	100	5/3/2011 02:15 AM
2-Methylnaphthalene	ND		300	µg/Kg	100	5/3/2011 02:15 AM
4-Chlorotoluene	ND	UJ	200	µg/Kg	100	5/3/2011 02:15 AM
4-Methyl-2-pentanone	ND	UJ	500	µg/Kg	100	5/3/2011 02:15 AM
Acetone	ND	UJ	450	µg/Kg	100	5/3/2011 02:15 AM
Acrylonitrile	ND	UJ	100	µg/Kg	100	5/3/2011 02:15 AM
Benzene	ND		50	µg/Kg	100	5/3/2011 02:15 AM
Bromobenzene	ND	UJ	150	µg/Kg	100	5/3/2011 02:15 AM
Bromochloromethane	ND		150	µg/Kg	100	5/3/2011 02:15 AM
Bromodichloromethane	ND		150	µg/Kg	100	5/3/2011 02:15 AM
Bromoform	ND	UJ	100	µg/Kg	100	5/3/2011 02:15 AM
Carbon disulfide	ND		150	µg/Kg	100	5/3/2011 02:15 AM
Carbon tetrachloride	ND		100	µg/Kg	100	5/3/2011 02:15 AM
Chlorobenzene	ND		150	µg/Kg	100	5/3/2011 02:15 AM
Chloroethane	ND		300	µg/Kg	100	5/3/2011 02:15 AM

KA 5/18/11

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-MB-05
Collection Date: 4/28/2011

Work Order: 1104709
Lab ID: 1104709-04
Matrix: METHANOL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	ND		100	µg/Kg	100	5/3/2011 02:15 AM
Chloromethane	ND	UJ	300	µg/Kg	100	5/3/2011 02:15 AM
cis-1,2-Dichloroethene	ND		200	µg/Kg	100	5/3/2011 02:15 AM
cis-1,3-Dichloropropene	ND		100	µg/Kg	100	5/3/2011 02:15 AM
Dibromochloromethane	ND		200	µg/Kg	100	5/3/2011 02:15 AM
Dibromomethane	ND	UJ	200	µg/Kg	100	5/3/2011 02:15 AM
Dichlorodifluoromethane	ND		100	µg/Kg	100	5/3/2011 02:15 AM
Diethyl ether	ND		100	µg/Kg	100	5/3/2011 02:15 AM
Diisopropyl ether	ND		500	µg/Kg	100	5/3/2011 02:15 AM
Ethyl tert butyl ether	ND		100	µg/Kg	100	5/3/2011 02:15 AM
Ethylbenzene	ND		200	µg/Kg	100	5/3/2011 02:15 AM
Heptane	ND		100	µg/Kg	100	5/3/2011 02:15 AM
Hexachlorobutadiene	ND		100	µg/Kg	100	5/3/2011 02:15 AM
Hexachloroethane	ND		100	µg/Kg	100	5/3/2011 02:15 AM
Hexane	ND		300	µg/Kg	100	5/3/2011 02:15 AM
Iodomethane	ND	UJ	250	µg/Kg	100	5/3/2011 02:15 AM
Isopropylbenzene	ND		100	µg/Kg	100	5/3/2011 02:15 AM
m,p-Xylene	ND		200	µg/Kg	100	5/3/2011 02:15 AM
Methyl tert-butyl ether	ND		150	µg/Kg	100	5/3/2011 02:15 AM
Methylene chloride	ND		100	µg/Kg	100	5/3/2011 02:15 AM
n-Butylbenzene	ND		50	µg/Kg	100	5/3/2011 02:15 AM
n-Propylbenzene	ND		200	µg/Kg	100	5/3/2011 02:15 AM
Naphthalene	ND		200	µg/Kg	100	5/3/2011 02:15 AM
o-Xylene	ND		100	µg/Kg	100	5/3/2011 02:15 AM
p-Isopropyltoluene	ND		100	µg/Kg	100	5/3/2011 02:15 AM
sec-Butylbenzene	ND	UJ	100	µg/Kg	100	5/3/2011 02:15 AM
Styrene	ND		150	µg/Kg	100	5/3/2011 02:15 AM
tert-Amyl methyl ether	ND		100	µg/Kg	100	5/3/2011 02:15 AM
tert-Butyl alcohol	ND		500	µg/Kg	100	5/3/2011 02:15 AM
tert-Butylbenzene	ND		150	µg/Kg	100	5/3/2011 02:15 AM
Tetrachloroethene	ND		50	µg/Kg	100	5/3/2011 02:15 AM
Tetrahydrofuran	ND	UJ	150	µg/Kg	100	5/3/2011 02:15 AM
Toluene	ND	UJ	150	µg/Kg	100	5/3/2011 02:15 AM
trans-1,2-Dichloroethene	ND		100	µg/Kg	100	5/3/2011 02:15 AM
trans-1,3-Dichloropropene	ND		150	µg/Kg	100	5/3/2011 02:15 AM
trans-1,4-Dichloro-2-butene	ND	UJ	350	µg/Kg	100	5/3/2011 02:15 AM
Trichloroethene	ND		50	µg/Kg	100	5/3/2011 02:15 AM
Trichlorofluoromethane	ND		100	µg/Kg	100	5/3/2011 02:15 AM
Vinyl acetate	ND		1,500	µg/Kg	100	5/3/2011 02:15 AM
Vinyl chloride	ND		40	µg/Kg	100	5/3/2011 02:15 AM

KA 5/18/11

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

ALS Group USA, Corp

Date: *17-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-MB-05
Collection Date: 4/28/2011

Work Order: 1104709
Lab ID: 1104709-04
Matrix: METHANOL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethene, Total	ND		250	µg/Kg	100	5/3/2011 02:15 AM
1,3-Dichloropropene, Total	ND		100	µg/Kg	100	5/3/2011 02:15 AM
Xylenes, Total	ND		300	µg/Kg	100	5/3/2011 02:15 AM
Surr: 1,2-Dichloroethane-d4	*96.3*		*70-120*	*%REC*	100	5/3/2011 02:15 AM
Surr: 4-Bromofluorobenzene	*104*		*75-120*	*%REC*	100	5/3/2011 02:15 AM
Surr: Dibromofluoromethane	*98.3*		*85-115*	*%REC*	100	5/3/2011 02:15 AM
Surr: Toluene-d8	*98.9*		*85-115*	*%REC*	100	5/3/2011 02:15 AM

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

ALS Group USA, Corp

Date: 17-May-11

Client: Horizon Environmental
Work Order: 1104709
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **33090a** Instrument ID **GC4** Method: **SW8082**

MBLK Sample ID: **PBLKS1-33090-33090a** Units: **µg/Kg** Analysis Date: **5/2/2011 04:44 PM**

Client ID: Run ID: **GC4_110502A** SeqNo: **1615820** Prep Date: **5/2/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	40								
Aroclor 1221	ND	40								
Aroclor 1232	ND	40								
Aroclor 1242	ND	40								
Aroclor 1248	ND	40								
Aroclor 1254	ND	40								
Aroclor 1260	ND	40								
Aroclor 1262	ND	40								
Aroclor 1268	ND	40								
Surr: Decachlorobiphenyl	*27.33*	0	*33.3*	0	*82.1*	*50-130*	0			

LCS Sample ID: **PLCSS1-33090-33090a** Units: **µg/Kg** Analysis Date: **5/2/2011 04:44 PM**

Client ID: Run ID: **GC4_110502A** SeqNo: **1615822** Prep Date: **5/2/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	826.3	40	833	0	99.2	50-130	0			
Aroclor 1260	789	40	833	0	94.7	50-130	0			
Surr: Decachlorobiphenyl	*31*	0	*33.3*	0	*93.1*	*50-130*	0			

LCSD Sample ID: **PLCSDS1-33090-33090a** Units: **µg/Kg** Analysis Date: **5/2/2011 04:44 PM**

Client ID: Run ID: **GC4_110502A** SeqNo: **1615821** Prep Date: **5/2/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	817.3	40	833	0	98.1	50-130	826.3	1.1	25	
Aroclor 1260	786.3	40	833	0	94.4	50-130	789	0.339	25	
Surr: Decachlorobiphenyl	*25.67*	0	*33.3*	0	*77.1*	*50-130*	31	*18.8*	*25*	

MS Sample ID: **1104742-01B MS** Units: **µg/Kg** Analysis Date: **5/2/2011 04:44 PM**

Client ID: Run ID: **GC4_110502A** SeqNo: **1622504** Prep Date: **5/2/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	718.2	39	808.4	0	88.8	40-140	0			
Aroclor 1260	751.2	39	808.4	0	92.9	40-140	0			
Surr: Decachlorobiphenyl	*29.44*	0	*32.32*	0	*91.1*	*40-140*	0			

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

Client: Horizon Environmental
Work Order: 1104709
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **33090a** Instrument ID **GC4** Method: **SW8082**

MSD Sample ID: **1104742-01B MSD** Units: **µg/Kg** Analysis Date: **5/2/2011 04:44 PM**

Client ID: Run ID: **GC4_110502A** SeqNo: **1622505** Prep Date: **5/2/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	737.1	40	826.1	0	89.2	40-140	718.2	2.61	50	
Aroclor 1260	750.4	40	826.1	0	90.8	40-140	751.2	0.107	50	
Surr: Decachlorobiphenyl	*30.08*	0	*33.02*	0	*91.1*	*40-140*	29.44	*2.16*	*50*	

The following samples were analyzed in this batch: 1104709-01B 1104709-02B 1104709-03B

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

Client: Horizon Environmental
Work Order: 1104709
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **33064** Instrument ID **ICPMS2** Method: **SW6020A**

MBLK Sample ID: **MBLK-33064-33064** Units: **mg/Kg** Analysis Date: **5/2/2011 03:53 PM**
Client ID: Run ID: **ICPMS2_110502A** SeqNo: **1615018** Prep Date: **4/29/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Lead	ND	0.25								

LCS Sample ID: **LCS-33064-33064** Units: **mg/Kg** Analysis Date: **5/2/2011 03:58 PM**
Client ID: Run ID: **ICPMS2_110502A** SeqNo: **1615020** Prep Date: **4/29/2011** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.008	0.50	5	0	100	80-120	0			
Lead	4.939	0.50	5	0	98.8	80-120	0			

LCSD Sample ID: **LCSD-33064-33064** Units: **mg/Kg** Analysis Date: **5/2/2011 04:03 PM**
Client ID: Run ID: **ICPMS2_110502A** SeqNo: **1615021** Prep Date: **4/29/2011** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.888	0.50	5	0	97.8	80-120	5.008	2.43	20	
Lead	4.673	0.50	5	0	93.5	80-120	4.939	5.53	20	

MS Sample ID: **1104672-06BMS** Units: **mg/Kg** Analysis Date: **5/2/2011 04:33 PM**
Client ID: Run ID: **ICPMS2_110502A** SeqNo: **1615027** Prep Date: **4/29/2011** DF: **4**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	16.1	1.6	8.157	12.03	49.9	80-120	0			S
Lead	14.82	1.6	8.157	4.938	121	80-120	0			S

MSD Sample ID: **1104672-06BMSD** Units: **mg/Kg** Analysis Date: **5/2/2011 04:38 PM**
Client ID: Run ID: **ICPMS2_110502A** SeqNo: **1615028** Prep Date: **4/29/2011** DF: **4**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	18.44	1.6	8.17	12.03	78.5	80-120	16.1	13.6	25	S
Lead	14.36	1.6	8.17	4.938	115	80-120	14.82	3.19	25	

The following samples were analyzed in this batch: 1104709-01B 1104709-02B

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

Client: Horizon Environmental
Work Order: 1104709
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **33089** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-33089-33089** Units: **mg/Kg** Analysis Date: **5/2/2011 09:26 PM**
Client ID: Run ID: **ICPMS1_110502A** SeqNo: **1615235** Prep Date: **5/2/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Lead	ND	0.25								

LCS Sample ID: **LCS-33089-33089** Units: **mg/Kg** Analysis Date: **5/2/2011 09:32 PM**
Client ID: Run ID: **ICPMS1_110502A** SeqNo: **1615236** Prep Date: **5/2/2011** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.528	0.50	5	0	90.6	80-120	0			
Lead	4.546	0.50	5	0	90.9	80-120	0			

LCSD Sample ID: **LCSD-33089-33089** Units: **mg/Kg** Analysis Date: **5/2/2011 09:38 PM**
Client ID: Run ID: **ICPMS1_110502A** SeqNo: **1615237** Prep Date: **5/2/2011** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.642	0.50	5	0	92.8	80-120	4.528	2.49	20	
Lead	4.688	0.50	5	0	93.8	80-120	4.546	3.08	20	

MS Sample ID: **1104748-16BMS** Units: **mg/Kg** Analysis Date: **5/2/2011 09:56 PM**
Client ID: Run ID: **ICPMS1_110502A** SeqNo: **1615240** Prep Date: **5/2/2011** DF: **4**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.246	1.6	7.893	0.682	95.8	80-120	0			
Lead	10.62	1.6	7.893	3.081	95.5	80-120	0			

MSD Sample ID: **1104748-16BMSD** Units: **mg/Kg** Analysis Date: **5/2/2011 10:02 PM**
Client ID: Run ID: **ICPMS1_110502A** SeqNo: **1615241** Prep Date: **5/2/2011** DF: **4**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.084	1.6	8.091	0.682	91.5	80-120	8.246	1.99	25	
Lead	10.3	1.6	8.091	3.081	89.2	80-120	10.62	3.02	25	

The following samples were analyzed in this batch: 1104709-03B

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

Client: Horizon Environmental
Work Order: 1104709
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89623** Instrument ID **VMS7** Method: **SW8260**

MBLK Sample ID: **VBLKW2-110502-R89623** Units: **µg/L** Analysis Date: **5/3/2011 01:03 AM**

Client ID: Run ID: **VMS7_110502B** SeqNo: **1615017** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1,2-Trichlorotrifluoroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,1-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	3.0								
1,2,3-Trichloropropane	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	1.0								
1,2-Dibromoethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	2.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,3-Dichlorobenzene	ND	2.0								
1,3-Dichloropropane	ND	1.0								
1,4-Dichlorobenzene	ND	2.0								
2,2-Dichloropropane	ND	1.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	2.0								
2-Hexanone	ND	5.0								
2-Methylnaphthalene	ND	10								
4-Chlorotoluene	ND	1.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	20								
Acrylonitrile	ND	1.0								
Benzene	ND	1.0								
Bromobenzene	ND	1.0								
Bromochloromethane	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Carbon disulfide	ND	2.5								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								

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

Client: Horizon Environmental
Work Order: 1104709
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89623** Instrument ID **VMS7** Method: **SW8260**

cis-1,3-Dichloropropene	ND	1.0						
Dibromochloromethane	ND	1.0						
Dibromomethane	ND	1.0						
Dichlorodifluoromethane	ND	1.0						
Diethyl ether	ND	10						
Diisopropyl ether	ND	5.0						
Ethyl tert butyl ether	ND	5.0						
Ethylbenzene	ND	1.0						
Hexachlorobutadiene	1.21	5.0						J
Hexachloroethane	ND	1.0						
Hexane	ND	5.0						
Iodomethane	ND	5.0						
Isopropylbenzene	ND	1.0						
m,p-Xylene	ND	2.0						
Methyl tert-butyl ether	ND	5.0						
Methylene chloride	ND	5.0						
n-Butylbenzene	ND	1.0						
n-Propylbenzene	ND	1.0						
Naphthalene	ND	5.0						
o-Xylene	ND	1.0						
p-Isopropyltoluene	ND	2.0						
sec-Butylbenzene	ND	2.0						
Styrene	ND	1.0						
tert-Butyl alcohol	ND	50						
tert-Butylbenzene	ND	2.0						
Tetrachloroethene	ND	2.0						
Tetrahydrofuran	ND	10						
Toluene	ND	1.0						
trans-1,2-Dichloroethene	ND	1.0						
trans-1,3-Dichloropropene	ND	1.0						
trans-1,4-Dichloro-2-butene	ND	5.0						
Trichloroethene	ND	1.0						
Trichlorofluoromethane	ND	1.0						
Vinyl acetate	ND	1.0						
Vinyl chloride	ND	1.0						
1,2-Dichloroethene, Total	ND	2.0						
1,3-Dichloropropene, Total	ND	2.0						
Xylenes, Total	ND	2.0						
Surr: 1,2-Dichloroethane-d4	*97.17*	0	*100*	0	*97.2*	*70-120*	0	
Surr: 4-Bromofluorobenzene	*101.2*	0	*100*	0	*101*	*75-120*	0	
Surr: Dibromofluoromethane	*100.1*	0	*100*	0	*100*	*85-115*	0	
Surr: Toluene-d8	*101.3*	0	*100*	0	*101*	*85-120*	0	

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

Client: Horizon Environmental
Work Order: 1104709
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89623** Instrument ID **VMS7** Method: **SW8260**

LCS Sample ID: **VLCSW2-110502-R89623** Units: **µg/L** Analysis Date: **5/2/2011 11:50 PM**

Client ID: Run ID: **VMS7_110502B** SeqNo: **1615016** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.02	1.0	20	0	100	80-130	0			
1,1,1-Trichloroethane	19.95	1.0	20	0	99.8	65-130	0			
1,1,2,2-Tetrachloroethane	20.14	1.0	20	0	101	65-130	0			
1,1,2-Trichloroethane	20.13	1.0	20	0	101	75-125	0			
1,1-Dichloroethane	20.54	1.0	20	0	103	70-135	0			
1,1-Dichloroethene	22.3	1.0	20	0	112	70-130	0			
1,1-Dichloropropene	20.41	1.0	20	0	102	75-130	0			
1,2,3-Trichlorobenzene	19.8	3.0	20	0	99	55-140	0			
1,2,3-Trichloropropane	20.88	1.0	20	0	104	75-125	0			
1,2,4-Trichlorobenzene	18.28	1.0	20	0	91.4	65-135	0			
1,2,4-Trimethylbenzene	20.61	1.0	20	0	103	75-130	0			
1,2-Dibromo-3-chloropropane	18.05	1.0	20	0	90.2	50-130	0			
1,2-Dibromoethane	20.27	1.0	20	0	101	80-120	0			
1,2-Dichlorobenzene	19.21	1.0	20	0	96	70-120	0			
1,2-Dichloroethane	20.79	1.0	20	0	104	70-130	0			
1,2-Dichloropropane	20.29	2.0	20	0	101	75-125	0			
1,3,5-Trimethylbenzene	21.12	1.0	20	0	106	75-130	0			
1,3-Dichlorobenzene	19.48	2.0	20	0	97.4	75-125	0			
1,3-Dichloropropane	20.21	1.0	20	0	101	75-125	0			
1,4-Dichlorobenzene	19.37	2.0	20	0	96.8	75-125	0			
2,2-Dichloropropane	20.04	1.0	20	0	100	70-135	0			
2-Butanone	19.62	5.0	20	0	98.1	30-150	0			
2-Chlorotoluene	20.13	2.0	20	0	101	75-125	0			
2-Hexanone	20.84	5.0	20	0	104	55-130	0			
4-Chlorotoluene	20.69	1.0	20	0	103	75-135	0			
4-Methyl-2-pentanone	25.19	5.0	20	0	126	60-135	0			
Acetone	23.35	20	20	0	117	40-140	0			
Acrylonitrile	22.65	1.0	20	0	113	70-135	0			
Benzene	20.8	1.0	20	0	104	80-120	0			
Bromobenzene	20.29	1.0	20	0	101	75-125	0			
Bromochloromethane	21.05	1.0	20	0	105	65-130	0			
Bromodichloromethane	20.39	1.0	20	0	102	75-120	0			
Bromoform	18.07	1.0	20	0	90.4	70-130	0			
Carbon disulfide	23.36	2.5	20	0	117	35-165	0			
Carbon tetrachloride	19.49	1.0	20	0	97.4	65-140	0			
Chlorobenzene	20.48	1.0	20	0	102	80-120	0			
Chloroethane	18.17	1.0	20	0	90.8	60-135	0			
Chloroform	19.99	1.0	20	0	100	65-135	0			
Chloromethane	15.6	1.0	20	0	78	70-125	0			
cis-1,2-Dichloroethene	20.34	1.0	20	0	102	70-125	0			
cis-1,3-Dichloropropene	21.8	1.0	20	0	109	70-130	0			
Dibromochloromethane	19.97	1.0	20	0	99.8	60-135	0			

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

Client: Horizon Environmental
Work Order: 1104709
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89623** Instrument ID **VMS7** Method: **SW8260**

Dibromomethane	20.27	1.0	20	0	101	75-125	0
Dichlorodifluoromethane	18.12	1.0	20	0	90.6	30-155	0
Ethylbenzene	20.65	1.0	20	0	103	75-125	0
Hexachlorobutadiene	21.74	5.0	20	0	109	50-140	0
Hexachloroethane	19.07	1.0	20	0	95.4	70-135	0
Iodomethane	19.43	5.0	20	0	97.2	70-135	0
Isopropylbenzene	19.33	1.0	20	0	96.6	75-125	0
m,p-Xylene	42.25	2.0	40	0	106	75-130	0
Methyl tert-butyl ether	21.74	5.0	20	0	109	65-125	0
Methylene chloride	19.81	5.0	20	0	99	55-140	0
n-Butylbenzene	21.19	1.0	20	0	106	70-135	0
n-Propylbenzene	20.97	1.0	20	0	105	70-130	0
Naphthalene	19.44	5.0	20	0	97.2	55-140	0
o-Xylene	20.07	1.0	20	0	100	80-120	0
p-Isopropyltoluene	19.83	2.0	20	0	99.2	75-130	0
sec-Butylbenzene	21.9	2.0	20	0	110	70-125	0
Styrene	21.18	1.0	20	0	106	65-135	0
tert-Butylbenzene	21.19	2.0	20	0	106	70-130	0
Tetrachloroethene	21.48	2.0	20	0	107	45-150	0
Tetrahydrofuran	22.34	10	20	0	112	70-135	0
Toluene	19.92	1.0	20	0	99.6	75-120	0
trans-1,2-Dichloroethene	21.99	1.0	20	0	110	60-140	0
trans-1,3-Dichloropropene	20.61	1.0	20	0	103	55-140	0
trans-1,4-Dichloro-2-butene	14.14	5.0	20	0	70.7	70-135	0
Trichloroethene	21.49	1.0	20	0	107	70-125	0
Trichlorofluoromethane	18.09	1.0	20	0	90.4	60-145	0
Vinyl chloride	21.48	1.0	20	0	107	50-145	0
Xylenes, Total	62.32	2.0	60	0	104	75-130	0
Surr: 1,2-Dichloroethane-d4	*101.4*	0	*100*	0	*101*	*70-120*	0
Surr: 4-Bromofluorobenzene	*99.26*	0	*100*	0	*99.3*	*75-120*	0
Surr: Dibromofluoromethane	*101.5*	0	*100*	0	*102*	*85-115*	0
Surr: Toluene-d8	*99.17*	0	*100*	0	*99.2*	*85-120*	0

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

Client: Horizon Environmental
Work Order: 1104709
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89623** Instrument ID **VMS7** Method: **SW8260**

LCSD Sample ID: **VLCSDW2-110502-R89623** Units: **µg/L** Analysis Date: **5/3/2011 12:14 PM**

Client ID: Run ID: **VMS7_110502B** SeqNo: **1615019** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.4	1.0	20	0	102	80-130	20.02	1.88	30	
1,1,1-Trichloroethane	20.81	1.0	20	0	104	65-130	19.95	4.22	30	
1,1,2,2-Tetrachloroethane	19.7	1.0	20	0	98.5	65-130	20.14	2.21	30	
1,1,2-Trichloroethane	19.96	1.0	20	0	99.8	75-125	20.13	0.848	30	
1,1-Dichloroethane	21.57	1.0	20	0	108	70-135	20.54	4.89	30	
1,1-Dichloroethene	23.41	1.0	20	0	117	70-130	22.3	4.86	30	
1,1-Dichloropropene	21.49	1.0	20	0	107	75-130	20.41	5.16	30	
1,2,3-Trichlorobenzene	17.91	3.0	20	0	89.6	55-140	19.8	10	30	
1,2,3-Trichloropropane	19.89	1.0	20	0	99.4	75-125	20.88	4.86	30	
1,2,4-Trichlorobenzene	17.05	1.0	20	0	85.2	65-135	18.28	6.96	30	
1,2,4-Trimethylbenzene	21.28	1.0	20	0	106	75-130	20.61	3.2	30	
1,2-Dibromo-3-chloropropane	15.64	1.0	20	0	78.2	50-130	18.05	14.3	30	
1,2-Dibromoethane	19.78	1.0	20	0	98.9	80-120	20.27	2.45	30	
1,2-Dichlorobenzene	18.96	1.0	20	0	94.8	70-120	19.21	1.31	30	
1,2-Dichloroethane	20.8	1.0	20	0	104	70-130	20.79	0.0481	30	
1,2-Dichloropropane	20.86	2.0	20	0	104	75-125	20.29	2.77	30	
1,3,5-Trimethylbenzene	21.62	1.0	20	0	108	75-130	21.12	2.34	30	
1,3-Dichlorobenzene	19.43	2.0	20	0	97.2	75-125	19.48	0.257	30	
1,3-Dichloropropane	19.88	1.0	20	0	99.4	75-125	20.21	1.65	30	
1,4-Dichlorobenzene	19.7	2.0	20	0	98.5	75-125	19.37	1.69	30	
2,2-Dichloropropane	21.17	1.0	20	0	106	70-135	20.04	5.48	30	
2-Butanone	18.02	5.0	20	0	90.1	30-150	19.62	8.5	30	
2-Chlorotoluene	20.78	2.0	20	0	104	75-125	20.13	3.18	30	
2-Hexanone	19.7	5.0	20	0	98.5	55-130	20.84	5.62	30	
4-Chlorotoluene	21.38	1.0	20	0	107	75-135	20.69	3.28	30	
4-Methyl-2-pentanone	23.12	5.0	20	0	116	60-135	25.19	8.57	30	
Acetone	20.2	20	20	0	101	40-140	23.35	14.5	30	
Acrylonitrile	20.09	1.0	20	0	100	70-135	22.65	12	30	
Benzene	21.62	1.0	20	0	108	80-120	20.8	3.87	30	
Bromobenzene	20.83	1.0	20	0	104	75-125	20.29	2.63	30	
Bromochloromethane	21.69	1.0	20	0	108	65-130	21.05	2.99	30	
Bromodichloromethane	20.91	1.0	20	0	105	75-120	20.39	2.52	30	
Bromoform	19.71	1.0	20	0	98.6	70-130	18.07	8.68	30	
Carbon disulfide	24.68	2.5	20	0	123	35-165	23.36	5.5	30	
Carbon tetrachloride	20.49	1.0	20	0	102	65-140	19.49	5	30	
Chlorobenzene	20.95	1.0	20	0	105	80-120	20.48	2.27	30	
Chloroethane	18.83	1.0	20	0	94.2	60-135	18.17	3.57	30	
Chloroform	20.59	1.0	20	0	103	65-135	19.99	2.96	30	
Chloromethane	17.17	1.0	20	0	85.8	70-125	15.6	9.58	30	
cis-1,2-Dichloroethene	21.22	1.0	20	0	106	70-125	20.34	4.23	30	
cis-1,3-Dichloropropene	22	1.0	20	0	110	70-130	21.8	0.913	30	
Dibromochloromethane	19.87	1.0	20	0	99.4	60-135	19.97	0.502	30	

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

Client: Horizon Environmental
Work Order: 1104709
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89623** Instrument ID **VMS7** Method: **SW8260**

Dibromomethane	19.77	1.0	20	0	98.8	75-125	20.27	2.5	30	
Dichlorodifluoromethane	19.8	1.0	20	0	99	30-155	18.12	8.86	30	
Ethylbenzene	21.48	1.0	20	0	107	75-125	20.65	3.94	30	
Hexachlorobutadiene	20.78	5.0	20	0	104	50-140	21.74	4.52	30	
Hexachloroethane	22.95	1.0	20	0	115	70-135	19.07	18.5	30	
Iodomethane	19.56	5.0	20	0	97.8	70-135	19.43	0.667	30	
Isopropylbenzene	19.58	1.0	20	0	97.9	75-125	19.33	1.29	30	
m,p-Xylene	43.84	2.0	40	0	110	75-130	42.25	3.69	30	
Methyl tert-butyl ether	21.41	5.0	20	0	107	65-125	21.74	1.53	30	
Methylene chloride	20.39	5.0	20	0	102	55-140	19.81	2.89	30	
n-Butylbenzene	20.68	1.0	20	0	103	70-135	21.19	2.44	30	
n-Propylbenzene	21.24	1.0	20	0	106	70-130	20.97	1.28	30	
Naphthalene	17.14	5.0	20	0	85.7	55-140	19.44	12.6	30	
o-Xylene	20.64	1.0	20	0	103	80-120	20.07	2.8	30	
p-Isopropyltoluene	18.79	2.0	20	0	94	75-130	19.83	5.39	30	
sec-Butylbenzene	22.15	2.0	20	0	111	70-125	21.9	1.14	30	
Styrene	21.46	1.0	20	0	107	65-135	21.18	1.31	30	
tert-Butylbenzene	21.81	2.0	20	0	109	70-130	21.19	2.88	30	
Tetrachloroethene	20.66	2.0	20	0	103	45-150	21.48	3.89	30	
Tetrahydrofuran	20.04	10	20	0	100	70-135	22.34	10.9	30	
Toluene	20.75	1.0	20	0	104	75-120	19.92	4.08	30	
trans-1,2-Dichloroethene	23.21	1.0	20	0	116	60-140	21.99	5.4	30	
trans-1,3-Dichloropropene	20.91	1.0	20	0	105	55-140	20.61	1.45	30	
trans-1,4-Dichloro-2-butene	22.71	5.0	20	0	114	70-135	14.14	46.5	30	R
Trichloroethene	21.61	1.0	20	0	108	70-125	21.49	0.557	30	
Trichlorofluoromethane	19.28	1.0	20	0	96.4	60-145	18.09	6.37	30	
Vinyl chloride	23.36	1.0	20	0	117	50-145	21.48	8.39	30	
Xylenes, Total	64.48	2.0	60	0	107	75-130	62.32	3.41	30	
Surr: 1,2-Dichloroethane-d4	*100*	0	*100*	0	*100*	*70-120*	101.4	*1.29*	*30*	
Surr: 4-Bromofluorobenzene	*101.8*	0	*100*	0	*102*	*75-120*	99.26	*2.53*	*30*	
Surr: Dibromofluoromethane	*101.4*	0	*100*	0	*101*	*85-115*	101.5	*0.148*	*30*	
Surr: Toluene-d8	*101.5*	0	*100*	0	*102*	*85-120*	99.17	*2.34*	*30*	

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

Client: Horizon Environmental
Work Order: 1104709
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89623** Instrument ID **VMS7** Method: **SW8260**

MS Sample ID: **1104700-03A MS** Units: **µg/L** Analysis Date: **5/3/2011 08:42 AM**

Client ID: Run ID: **VMS7_110502B** SeqNo: **1615916** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	18.84	1.0	20	0	94.2	80-130	0			
1,1,1-Trichloroethane	22.88	1.0	20	0	114	65-130	0			
1,1,2,2-Tetrachloroethane	12.53	1.0	20	0	62.6	65-130	0			S
1,1,2-Trichloroethane	18.09	1.0	20	0	90.4	75-125	0			
1,1-Dichloroethane	19.23	1.0	20	0	96.2	70-135	0			
1,1-Dichloroethene	22.52	1.0	20	0	113	70-130	0			
1,1-Dichloropropene	22.18	1.0	20	0	111	75-130	0			
1,2,3-Trichlorobenzene	17.66	3.0	20	0	88.3	55-140	0			
1,2,3-Trichloropropane	12.78	1.0	20	0	63.9	75-125	0			S
1,2,4-Trichlorobenzene	17.4	1.0	20	0	87	65-135	0			
1,2,4-Trimethylbenzene	13.71	1.0	20	0	68.6	75-130	0			S
1,2-Dibromo-3-chloropropane	15.11	1.0	20	0	75.6	50-130	0			
1,2-Dibromoethane	16.25	1.0	20	0	81.2	80-120	0			
1,2-Dichlorobenzene	18.36	1.0	20	0	91.8	70-120	0			
1,2-Dichloroethane	19.45	1.0	20	0	97.2	70-130	0			
1,2-Dichloropropane	18.78	2.0	20	0	93.9	75-125	0			
1,3,5-Trimethylbenzene	14.41	1.0	20	0	72	75-130	0			S
1,3-Dichlorobenzene	17.98	2.0	20	0	89.9	75-125	0			
1,3-Dichloropropane	18.4	1.0	20	0	92	75-125	0			
1,4-Dichlorobenzene	18.14	2.0	20	0	90.7	75-125	0			
2,2-Dichloropropane	17.63	1.0	20	0	88.2	70-135	0			
2-Butanone	9.88	5.0	20	0	49.4	30-150	0			
2-Chlorotoluene	13.81	2.0	20	0	69	75-125	0			S
2-Hexanone	13.35	5.0	20	0	66.8	55-130	0			
4-Chlorotoluene	13.9	1.0	20	0	69.5	75-135	0			S
4-Methyl-2-pentanone	17.33	5.0	20	0	86.6	60-135	0			
Acetone	ND	20	20	0	0	40-140	0			S
Acrylonitrile	5.05	1.0	20	0	25.2	70-135	0			S
Benzene	20.2	1.0	20	0	101	80-120	0			
Bromobenzene	14.27	1.0	20	0	71.4	75-125	0			S
Bromochloromethane	16.72	1.0	20	0	83.6	65-130	0			
Bromodichloromethane	17.82	1.0	20	0	89.1	75-120	0			
Bromoform	11.56	1.0	20	0	57.8	70-130	0			S
Carbon disulfide	21.94	2.5	20	0	110	35-165	0			
Carbon tetrachloride	22.84	1.0	20	0	114	65-140	0			
Chlorobenzene	18.74	1.0	20	0	93.7	80-120	0			
Chloroethane	15.01	1.0	20	0	75	60-135	0			
Chloroform	19.25	1.0	20	0	96.2	65-135	0			
Chloromethane	10.04	1.0	20	0	50.2	70-125	0			S
cis-1,2-Dichloroethene	18.7	1.0	20	0	93.5	70-125	0			
cis-1,3-Dichloropropene	16.5	1.0	20	0	82.5	70-130	0			
Dibromochloromethane	16.05	1.0	20	0	80.2	60-135	0			

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

Client: Horizon Environmental
Work Order: 1104709
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89623** Instrument ID **VMS7** Method: **SW8260**

Dibromomethane	14.81	1.0	20	0	74	75-125	0	S
Dichlorodifluoromethane	16.66	1.0	20	0	83.3	30-155	0	
Ethylbenzene	21.65	1.0	20	0	108	75-125	0	
Hexachlorobutadiene	20.35	5.0	20	0	102	50-140	0	
Hexachloroethane	20.63	1.0	20	0	103	70-135	0	
Iodomethane	12.89	5.0	20	0	64.4	70-135	0	S
Isopropylbenzene	17.34	1.0	20	0	86.7	75-125	0	
m,p-Xylene	40.28	2.0	40	0	101	75-130	0	
Methyl tert-butyl ether	16.85	5.0	20	0	84.2	65-125	0	
Methylene chloride	16.38	5.0	20	0	81.9	55-140	0	
n-Butylbenzene	18.33	1.0	20	0	91.6	70-135	0	
n-Propylbenzene	15.62	1.0	20	0	78.1	70-130	0	
Naphthalene	17.06	5.0	20	0	85.3	55-140	0	
o-Xylene	18.31	1.0	20	0	91.6	80-120	0	
p-Isopropyltoluene	17.29	2.0	20	0	86.4	75-130	0	
sec-Butylbenzene	14.27	2.0	20	0	71.4	70-125	0	
Styrene	15.39	1.0	20	0	77	65-135	0	
tert-Butylbenzene	14.9	2.0	20	0	74.5	70-130	0	
Tetrachloroethene	26.36	2.0	20	0	132	45-150	0	
Tetrahydrofuran	ND	10	20	0	0	70-135	0	S
Toluene	24.26	1.0	20	0	121	75-120	0	S
trans-1,2-Dichloroethene	20.97	1.0	20	0	105	60-140	0	
trans-1,3-Dichloropropene	18.88	1.0	20	0	94.4	55-140	0	
trans-1,4-Dichloro-2-butene	15.81	5.0	20	0	79	70-135	0	
Trichloroethene	20.99	1.0	20	0	105	70-125	0	
Trichlorofluoromethane	17.16	1.0	20	0	85.8	60-145	0	
Vinyl chloride	19.28	1.0	20	0	96.4	50-145	0	
Xylenes, Total	58.59	2.0	60	0	97.6	75-130	0	
Surr: 1,2-Dichloroethane-d4	*95.89*	0	*100*	0	*95.9*	*70-120*	0	
Surr: 4-Bromofluorobenzene	*76.23*	0	*100*	0	*76.2*	*75-120*	0	
Surr: Dibromofluoromethane	*102.3*	0	*100*	0	*102*	*85-115*	0	
Surr: Toluene-d8	*126.7*	0	*100*	0	*127*	*85-120*	0	*S*

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

Client: Horizon Environmental
Work Order: 1104709
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89623** Instrument ID **VMS7** Method: **SW8260**

MSD Sample ID: **1104700-03A MSD** Units: **µg/L** Analysis Date: **5/3/2011 09:06 AM**

Client ID: Run ID: **VMS7_110502B** SeqNo: **1615917** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19.48	1.0	20	0	97.4	80-130	18.84	3.34	30	
1,1,1-Trichloroethane	20.55	1.0	20	0	103	65-130	22.88	10.7	30	
1,1,2,2-Tetrachloroethane	19.96	1.0	20	0	99.8	65-130	12.53	45.7	30	R
1,1,2-Trichloroethane	19.86	1.0	20	0	99.3	75-125	18.09	9.33	30	
1,1-Dichloroethane	20.37	1.0	20	0	102	70-135	19.23	5.76	30	
1,1-Dichloroethene	22.81	1.0	20	0	114	70-130	22.52	1.28	30	
1,1-Dichloropropene	20.59	1.0	20	0	103	75-130	22.18	7.44	30	
1,2,3-Trichlorobenzene	18.46	3.0	20	0	92.3	55-140	17.66	4.43	30	
1,2,3-Trichloropropane	20.14	1.0	20	0	101	75-125	12.78	44.7	30	R
1,2,4-Trichlorobenzene	17.52	1.0	20	0	87.6	65-135	17.4	0.687	30	
1,2,4-Trimethylbenzene	18.56	1.0	20	0	92.8	75-130	13.71	30.1	30	R
1,2-Dibromo-3-chloropropane	18.29	1.0	20	0	91.4	50-130	15.11	19	30	
1,2-Dibromoethane	20.13	1.0	20	0	101	80-120	16.25	21.3	30	
1,2-Dichlorobenzene	18.64	1.0	20	0	93.2	70-120	18.36	1.51	30	
1,2-Dichloroethane	20.25	1.0	20	0	101	70-130	19.45	4.03	30	
1,2-Dichloropropane	19.96	2.0	20	0	99.8	75-125	18.78	6.09	30	
1,3,5-Trimethylbenzene	19.35	1.0	20	0	96.8	75-130	14.41	29.3	30	
1,3-Dichlorobenzene	17.76	2.0	20	0	88.8	75-125	17.98	1.23	30	
1,3-Dichloropropane	20.13	1.0	20	0	101	75-125	18.4	8.98	30	
1,4-Dichlorobenzene	18.15	2.0	20	0	90.8	75-125	18.14	0.0551	30	
2,2-Dichloropropane	16.78	1.0	20	0	83.9	70-135	17.63	4.94	30	
2-Butanone	38.49	5.0	20	0	192	30-150	9.88	118	30	SR
2-Chlorotoluene	18.7	2.0	20	0	93.5	75-125	13.81	30.1	30	R
2-Hexanone	20.93	5.0	20	0	105	55-130	13.35	44.2	30	R
4-Chlorotoluene	18.89	1.0	20	0	94.4	75-135	13.9	30.4	30	R
4-Methyl-2-pentanone	25.75	5.0	20	0	129	60-135	17.33	39.1	30	R
Acetone	19.26	20	20	0	96.3	40-140	0	0	30	J
Acrylonitrile	19.71	1.0	20	0	98.6	70-135	5.05	118	30	R
Benzene	20.05	1.0	20	0	100	80-120	20.2	0.745	30	
Bromobenzene	19.05	1.0	20	0	95.2	75-125	14.27	28.7	30	
Bromochloromethane	20.52	1.0	20	0	103	65-130	16.72	20.4	30	
Bromodichloromethane	19.71	1.0	20	0	98.6	75-120	17.82	10.1	30	
Bromoform	19.06	1.0	20	0	95.3	70-130	11.56	49	30	R
Carbon disulfide	22.76	2.5	20	0	114	35-165	21.94	3.67	30	
Carbon tetrachloride	19.9	1.0	20	0	99.5	65-140	22.84	13.8	30	
Chlorobenzene	19.76	1.0	20	0	98.8	80-120	18.74	5.3	30	
Chloroethane	17.49	1.0	20	0	87.4	60-135	15.01	15.3	30	
Chloroform	19.66	1.0	20	0	98.3	65-135	19.25	2.11	30	
Chloromethane	14.24	1.0	20	0	71.2	70-125	10.04	34.6	30	R
cis-1,2-Dichloroethene	20.13	1.0	20	0	101	70-125	18.7	7.37	30	
cis-1,3-Dichloropropene	19.89	1.0	20	0	99.4	70-130	16.5	18.6	30	
Dibromochloromethane	19.11	1.0	20	0	95.6	60-135	16.05	17.4	30	

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

Client: Horizon Environmental
Work Order: 1104709
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89623** Instrument ID **VMS7** Method: **SW8260**

Dibromomethane	19.61	1.0	20	0	98	75-125	14.81	27.9	30	
Dichlorodifluoromethane	19.32	1.0	20	0	96.6	30-155	16.66	14.8	30	
Ethylbenzene	20.44	1.0	20	0	102	75-125	21.65	5.75	30	
Hexachlorobutadiene	21.57	5.0	20	0	108	50-140	20.35	5.82	30	
Hexachloroethane	22.79	1.0	20	0	114	70-135	20.63	9.95	30	
Iodomethane	14.19	5.0	20	0	71	70-135	12.89	9.6	30	
Isopropylbenzene	18.36	1.0	20	0	91.8	75-125	17.34	5.71	30	
m,p-Xylene	40.65	2.0	40	0	102	75-130	40.28	0.914	30	
Methyl tert-butyl ether	18.08	5.0	20	0	90.4	65-125	16.85	7.04	30	
Methylene chloride	18.36	5.0	20	0	91.8	55-140	16.38	11.4	30	
n-Butylbenzene	18.67	1.0	20	0	93.4	70-135	18.33	1.84	30	
n-Propylbenzene	19.37	1.0	20	0	96.8	70-130	15.62	21.4	30	
Naphthalene	19.18	5.0	20	0	95.9	55-140	17.06	11.7	30	
o-Xylene	19.53	1.0	20	0	97.6	80-120	18.31	6.45	30	
p-Isopropyltoluene	17.28	2.0	20	0	86.4	75-130	17.29	0.0579	30	
sec-Butylbenzene	19.78	2.0	20	0	98.9	70-125	14.27	32.4	30	R
Styrene	19.45	1.0	20	0	97.2	65-135	15.39	23.3	30	
tert-Butylbenzene	19.74	2.0	20	0	98.7	70-130	14.9	27.9	30	
Tetrachloroethene	19.94	2.0	20	0	99.7	45-150	26.36	27.7	30	
Tetrahydrofuran	17.94	10	20	0	89.7	70-135	0	200	30	R
Toluene	20.32	1.0	20	0	102	75-120	24.26	17.7	30	
trans-1,2-Dichloroethene	21.17	1.0	20	0	106	60-140	20.97	0.949	30	
trans-1,3-Dichloropropene	19.62	1.0	20	0	98.1	55-140	18.88	3.84	30	
trans-1,4-Dichloro-2-butene	29.85	5.0	20	0	149	70-135	15.81	61.5	30	SR
Trichloroethene	20.83	1.0	20	0	104	70-125	20.99	0.765	30	
Trichlorofluoromethane	18.12	1.0	20	0	90.6	60-145	17.16	5.44	30	
Vinyl chloride	21.97	1.0	20	0	110	50-145	19.28	13	30	
Xylenes, Total	60.18	2.0	60	0	100	75-130	58.59	2.68	30	
Surr: 1,2-Dichloroethane-d4	*101.4*	0	*100*	0	*101*	*70-120*	95.89	*5.62*	*30*	
Surr: 4-Bromofluorobenzene	*95.78*	0	*100*	0	*95.8*	*75-120*	76.23	*22.7*	*30*	
Surr: Dibromofluoromethane	*103.1*	0	*100*	0	*103*	*85-115*	102.3	*0.798*	*30*	
Surr: Toluene-d8	*102.5*	0	*100*	0	*102*	*85-120*	126.7	*21.2*	*30*	

The following samples were analyzed in this batch: 1104709-01A 1104709-02A 1104709-03A 1104709-04A

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

Client: Horizon Environmental
Work Order: 1104709
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89682A** Instrument ID **VMS8** Method: **SW8260**

MBLK Sample ID: **VBLKW2-110503-R89682A** Units: **µg/L** Analysis Date: **5/3/2011 11:15 PM**

Client ID: Run ID: **VMS8_110503A** SeqNo: **1616457** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
2-Methylnaphthalene	ND	10								
Naphthalene	0.85	5.0								J
o-Xylene	ND	1.0								
p-Isopropyltoluene	ND	2.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	*96.79*	0	*100*	0	*96.8*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*95.74*	0	*100*	0	*95.7*	*75-120*	0			
Surr: Dibromofluoromethane	*100.8*	0	*100*	0	*101*	*85-115*	0			
Surr: Toluene-d8	*100*	0	*100*	0	*100*	*85-120*	0			

LCS Sample ID: **VLCSW1-110503-R89682A** Units: **µg/L** Analysis Date: **5/3/2011 09:54 PM**

Client ID: Run ID: **VMS8_110503A** SeqNo: **1616454** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	22	1.0	20	0	110	75-130	0			
1,3,5-Trimethylbenzene	23.53	1.0	20	0	118	75-130	0			
Naphthalene	25.37	5.0	20	0	127	55-140	0			
o-Xylene	23.01	1.0	20	0	115	80-120	0			
p-Isopropyltoluene	21.07	2.0	20	0	105	75-130	0			
Xylenes, Total	67.97	2.0	60	0	113	75-130	0			
Surr: 1,2-Dichloroethane-d4	*97.64*	0	*100*	0	*97.6*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*98.18*	0	*100*	0	*98.2*	*75-120*	0			
Surr: Dibromofluoromethane	*103*	0	*100*	0	*103*	*85-115*	0			
Surr: Toluene-d8	*102.5*	0	*100*	0	*102*	*85-120*	0			

LCSD Sample ID: **VLCSDW1-110503-R89682A** Units: **µg/L** Analysis Date: **5/3/2011 10:21 PM**

Client ID: Run ID: **VMS8_110503A** SeqNo: **1616456** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	21.85	1.0	20	0	109	75-130	22	0.684	30	
1,3,5-Trimethylbenzene	22.79	1.0	20	0	114	75-130	23.53	3.2	30	
Naphthalene	23.58	5.0	20	0	118	55-140	25.37	7.31	30	
o-Xylene	22.31	1.0	20	0	112	80-120	23.01	3.09	30	
p-Isopropyltoluene	20.01	2.0	20	0	100	75-130	21.07	5.16	30	
Xylenes, Total	66.43	2.0	60	0	111	75-130	67.97	2.29	30	
Surr: 1,2-Dichloroethane-d4	*98.36*	0	*100*	0	*98.4*	*70-120*	97.64	*0.735*	*30*	
Surr: 4-Bromofluorobenzene	*100.2*	0	*100*	0	*100*	*75-120*	98.18	*2.09*	*30*	
Surr: Dibromofluoromethane	*101.8*	0	*100*	0	*102*	*85-115*	103	*1.11*	*30*	
Surr: Toluene-d8	*101.4*	0	*100*	0	*101*	*85-120*	102.5	*1.02*	*30*	

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

Client: Horizon Environmental
Work Order: 1104709
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89682A** Instrument ID **VMS8** Method: **SW8260**

MS Sample ID: **1104738-15A MS** Units: **µg/Kg** Analysis Date: **5/4/2011 08:18 AM**

Client ID: Run ID: **VMS8_110503A** SeqNo: **1616563** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	2035	100	2000	0	102	65-135	0			
1,3,5-Trimethylbenzene	2174	100	2000	0	109	65-135	0			
Naphthalene	2295	200	2000	0	115	40-140	0			
o-Xylene	2125	100	2000	0	106	75-125	0			
p-Isopropyltoluene	1981	950	2000	0	99	75-135	0			
Xylenes, Total	6259	300	6000	0	104	75-125	0			
Surr: 1,2-Dichloroethane-d4	*9247*	0	*10000*	0	*92.5*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*9712*	0	*10000*	0	*97.1*	*75-120*	0			
Surr: Dibromofluoromethane	*9801*	0	*10000*	0	*98*	*85-115*	0			
Surr: Toluene-d8	*10080*	0	*10000*	0	*101*	*85-115*	0			

MSD Sample ID: **1104738-15A MSD** Units: **µg/Kg** Analysis Date: **5/4/2011 08:45 AM**

Client ID: Run ID: **VMS8_110503A** SeqNo: **1616564** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	2063	100	2000	0	103	65-135	2035	1.37	30	
1,3,5-Trimethylbenzene	2187	100	2000	0	109	65-135	2174	0.596	30	
Naphthalene	2230	200	2000	0	112	40-140	2295	2.87	30	
o-Xylene	2145	100	2000	0	107	75-125	2125	0.937	30	
p-Isopropyltoluene	1906	950	2000	0	95.3	75-135	1981	3.86	30	
Xylenes, Total	6322	300	6000	0	105	75-125	6259	1	30	
Surr: 1,2-Dichloroethane-d4	*9328*	0	*10000*	0	*93.3*	*70-120*	9247	*0.872*	*30*	
Surr: 4-Bromofluorobenzene	*9929*	0	*10000*	0	*99.3*	*75-120*	9712	*2.21*	*30*	
Surr: Dibromofluoromethane	*9641*	0	*10000*	0	*96.4*	*85-115*	9801	*1.65*	*30*	
Surr: Toluene-d8	*10410*	0	*10000*	0	*104*	*85-115*	10080	*3.29*	*30*	

The following samples were analyzed in this batch: 1104709-02A 1104709-03A

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

Client: Horizon Environmental
Work Order: 1104709
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89547** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS1-R89547** Units: **% of sample** Analysis Date: **4/29/2011 09:59 AM**
Client ID: Run ID: **MOIST_110429A** SeqNo: **1614165** 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-R89547** Units: **% of sample** Analysis Date: **4/29/2011 09:59 AM**
Client ID: Run ID: **MOIST_110429A** SeqNo: **1614161** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1104708-01B DUP** Units: **% of sample** Analysis Date: **4/29/2011 09:59 AM**
Client ID: Run ID: **MOIST_110429A** SeqNo: **1613686** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	14.93	0.050	0	0	0	0-0	18.23	19.9	20	

DUP Sample ID: **1104709-03B DUP** Units: **% of sample** Analysis Date: **4/29/2011 09:59 AM**
Client ID: **RO-FD-VS-41** Run ID: **MOIST_110429A** SeqNo: **1614155** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	24	0.050	0	0	0	0-0	23.8	0.837	20	

The following samples were analyzed in this batch: 1104709-01B 1104709-02B 1104709-03B

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

☐ **ALS Environmental**
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Chain of Custody Form

Page ____ of ____

COC ID: 11142

☐ **ALS Environmental**
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager: | ALS Work Order #: 1104709

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Reclamation Oil	A	VOC S
Work Order		Project Number		B	PCB S
Company Name	Horizon Environmental	Bill To Company	Horizon Environmental	C	LEAD
Send Report To	Bill Davidson	Invoice Attn	Accounts Payable	D	Arsenic
Address	4771 50th Street	Address	4771 50th Street	E	
				F	
City/State/Zip	Grand Rapids, MI 49512	City/State/Zip	Grand Rapids, MI 49512	G	
Phone	(616) 554-3210	Phone	(616) 554-3210	H	
Fax	(616) 554-3211	Fax	(616) 554-3211	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	RO-S-VS-39	4-25-11	1100	Soil	methanol	3	X	X	X	X							
2	RO-S-VS-41 RO-FD-VS-41	4-28-11	1310	Soil	"	3	X	X	X	X							
3	~~RO-S-VS-41 Duplicate~~ KB 4/29/11	"	1315	Soil	"	3	X	X	X	X							
4	~~RO-MB-1~~ RO-MB-05 KB 4/29/11			methanol	"	2	X										
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Mike Potter

Shipment Method:

Required Turnaround Time: (Check Box): STANDARD ☐ Other ____ ☐ Std 10 WK Days ☐ 6 WK Days ☐ 2 WK Days ☐ 24 Hour

Notes:

Results Due Date:

Relinquished by: Date: 4-28-11 Time: 1:48pm Received by:

Relinquished by: Date: 4/28/11 Time: Received by (Laboratory): 4/29/11 0780

Logged by (Laboratory): DFS Date: 4/29/11 Time: 0800 Checked by (Laboratory):

Cooler ID	Cooler Temp.
	5.4°C

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other ____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
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CUSTODY SEAL

Date: 4/27/11 Time:
Name: [illegible]
Company:

Seal Broken By:
Date:

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL

Date: 4/27/11 Time:
Name: [illegible]
Company:

Seal Broken By:
Date:

CITY TRANSFER COMPANY (GROUND-AIR-BIKE) SHIPPING RECEIPT

DATE [illegible]

PLACE AN "X" BELOW

SPECIAL SERVICE	
GROUND SERVICE	Y
AIR SERVICE	
AIR & GROUND COMBINED	
CANCELLED CHECKS OR CASH LETTERS	
OTHER (LIST COMMODITIES) ➡	
SPECIAL INSTRUCTIONS ➡	

SHIPPER COMPANY: ALS
CONTACT: [illegible] PHONE #:
STREET ADDRESS: 2415 Chandler
CITY: Lansing STATE, ZIP CODE: MI
DECLARED VALUE $:
ADD'L INSURANCE COST $:

RECEIVER: ALS
PHONE #: (616) 399 6070
STREET ADDRESS:
CITY: Holland STATE, ZIP CODE: MI
ACCOUNT NO.:

PIECES	(DESCRIPTION OF WHAT IS BEING SHIPPED: BOX, BAG, ENVELOPE)	WGHT LBS.	WGHT OZ.	$ CHARGES
2	Coolers Sealed	190		

☐ PREPAID ☐ BILL TO ACCT. ☐ C.O.D.

TOTAL $

Except for "cash letters", the released or declared value of this shipment is specifically declared not to be in excess of $50.00, unless a greater value is declared in writing on this Bill of Lading for which additional charges will be assessed. Carrier's liability with respect to "cash letter" shipments is limited in its tariffs.

Except on "cash letter" shipments, claims, if any, must be filed in writing within thirty (30) days after pickup. Claims involving "cash letter" shipments must be filed in writing within three (3) days after pickup. Claimant shall give oral notice to carrier as soon as it becomes aware of a potential claim involving a "cash letter" shipment.

CARRIER SHALL NOT BE LIABLE FOR CONSEQUENTIAL DAMAGES.

RECEIVED, Subject to rates and tariffs in effect on the date hereof

PICKED UP BY	DATE	TIME
DRIVER: MH	4/27/11	A.M.
ROUTE #: 207		P.M.

RECEIVED BY	DATE	TIME
[illegible]	04/27/11	A.M.
ROUTE #: 1903		P.M.

The property described above, in apparent good order, except as noted (contents and conditions of packages unknown), marked, consigned and destined as shown below, which said company agrees to carry to its usual place of delivery at said destination if within the [illegible] each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HORIZONENV-GR** Date/Time Received: **29-Apr-11 07:30**

Work Order: **1104709** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 29-Apr-11 (Date) Reviewed by: Joseph Rebar (eSignature) 29-Apr-11 (Date)

Matrices: Soil
Carrier name: City Transfer

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	5.4 c		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

DATA VALIDATION REPORT

RECLAMATION OIL SITE
6472 SELKIRK STREET
DETROIT, MICHIGAN

Date: May 3, 2011
Laboratory: ALS Laboratory Group (ALS), Holland, Michigan
Laboratory Work Order #: 1104752
Data Validation Performed By: Karen Hathaway, Horizon Environmental

This data validation report has been prepared by Horizon Environmental Corporation on behalf of the Respondents to the Administrative Settlement Agreement and Order on Consent for Removal Action Docket No. V-W-10-C-955 (Settlement Agreement) entered into by the U.S. Environmental Protection Agency (U.S. EPA) and Respondents[1] with an effective date of September 30, 2010.

This report documents the data validation for one soil sample collected from the Reclamation Oil Site that was analyzed for the following parameters by U.S. Environmental Protection Agency (U.S. EPA) methods:

- Target Compound List (TCL) Volatile Organic Compounds (VOC) by SW-846 Method 8260B.

All of the collected samples were analyzed by the laboratory (100% completeness). A Level II data package was requested from ALS. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

VOCs BY SW-846 METHOD 8260B

1. Samples

The following table summarizes the sample for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
RO-S-VS-46	1104752-01	Soil	4/29/2011	4/30/2011

[1] The Respondents consist of Univar USA Inc., SPX Corporation, BorgWarner Inc., and Ford Motor Company.

2. Holding Times

The sample was analyzed within the required holding time limit of 14 days from sample collection.

3. Blanks

The method blank analyzed April 30, 2011 contained chloromethane at a concentration above the practical quantitation limit (PQL). No qualifications are required because the sample results were non-detect at a much higher detection limit than the blank detection.

4. Surrogate Results

The surrogate recovery results were within the laboratory-established quality control (QC) limits.

5. Laboratory Control Sample (LCS) Results

The LCS percent recoveries were within laboratory-established QC limits. The chloromethane recoveries were flagged "B" because chloromethane was detected in the method blank (see paragraph 3). No qualifications are required.

6. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

The MS/MSD results had recoveries outside QC limits for iodomethane. The sample quantitation limit for the non-detect result for iodomethane was flagged "UJ" as estimated. The chloromethane recoveries were flagged "B" because chloromethane was detected in the method blank (see paragraph 3). No additional qualifications are required.

7. Field Duplicate Results

Field duplicate samples were not collected. No qualification of the data is needed.

8. Overall Assessment

The VOC data are acceptable for use as qualified based on the information received.

ATTACHMENT

ALS LABORATORY GROUP
RESULTS SUMMARY WITH QUALIFIERS

ALS Environmental

03-May-2011

Bill Davidson
Horizon Environmental
4771 50th Street
Grand Rapids, MI 49512

Re: **Reclamation Oil** Work Order: **1104752**

Dear Bill,

ALS Environmental received 1 sample on 30-Apr-2011 08:30 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.

QC sample results for this data met 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 21.

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

Sincerely,

Joseph Ribar

Electronically approved by: Joseph Ribar

Joseph Ribar
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

Certificate No: IL100452

ALS Group USA, Corp

Date: 03-May-11

Client: Horizon Environmental
Project: Reclamation Oil
Work Order: **1104752**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1104752-01	RO-S-VS-46	Soil		4/29/2011 13:10	4/30/2011 08:30	☐

Client: Horizon Environmental
Project: Reclamation Oil
Work Order: 1104752

Case Narrative

QC Summary

Volatile Organic Compounds

Batch R89560A, Method 8260, Chloromethane was detected in the blank. The minor contamination had no effect on the samples as all samples were non-detect.

Batch R89560A, Method 8260, Sample 1104746-03A MS/MSD: Iodomethane recoveries were outside control limits due to matrix interference.

ALS Group USA, Corp

Date: 03-May-11

Client: Horizon Environmental
Project: Reclamation Oil
WorkOrder: 1104752

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	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 detected below quantitation 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

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
TDL	Target Detection Limit

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group USA, Corp

Date: *03-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-46
Collection Date: 4/29/2011 01:10 PM

Work Order: 1104752
Lab ID: 1104752-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **MK**
1,1,1,2-Tetrachloroethane	ND		190	µg/Kg-dry	100	4/30/2011 07:15 PM
1,1,1-Trichloroethane	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
1,1,2,2-Tetrachloroethane	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
1,1,2-Trichloroethane	ND		62	µg/Kg-dry	100	4/30/2011 07:15 PM
1,1,2-Trichlorotrifluoroethane	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
1,1-Dichloroethane	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
1,1-Dichloroethene	ND		62	µg/Kg-dry	100	4/30/2011 07:15 PM
1,1-Dichloropropene	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
1,2,3-Trichlorobenzene	ND		250	µg/Kg-dry	100	4/30/2011 07:15 PM
1,2,3-Trichloropropane	ND		250	µg/Kg-dry	100	4/30/2011 07:15 PM
1,2,4-Trichlorobenzene	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
1,2,4-Trimethylbenzene	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
1,2-Dibromo-3-chloropropane	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
1,2-Dibromoethane	ND		190	µg/Kg-dry	100	4/30/2011 07:15 PM
1,2-Dichlorobenzene	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
1,2-Dichloroethane	ND		62	µg/Kg-dry	100	4/30/2011 07:15 PM
1,2-Dichloropropane	ND		62	µg/Kg-dry	100	4/30/2011 07:15 PM
1,3,5-Trimethylbenzene	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
1,3-Dichlorobenzene	ND		62	µg/Kg-dry	100	4/30/2011 07:15 PM
1,3-Dichloropropane	ND		62	µg/Kg-dry	100	4/30/2011 07:15 PM
1,4-Dichlorobenzene	ND		62	µg/Kg-dry	100	4/30/2011 07:15 PM
2,2-Dichloropropane	ND		62	µg/Kg-dry	100	4/30/2011 07:15 PM
2-Butanone	ND		940	µg/Kg-dry	100	4/30/2011 07:15 PM
2-Chlorotoluene	ND		62	µg/Kg-dry	100	4/30/2011 07:15 PM
2-Hexanone	ND		620	µg/Kg-dry	100	4/30/2011 07:15 PM
2-Methylnaphthalene	ND		380	µg/Kg-dry	100	4/30/2011 07:15 PM
4-Chlorotoluene	ND		250	µg/Kg-dry	100	4/30/2011 07:15 PM
4-Methyl-2-pentanone	ND		620	µg/Kg-dry	100	4/30/2011 07:15 PM
Acetone	ND		560	µg/Kg-dry	100	4/30/2011 07:15 PM
Acrylonitrile	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
Benzene	ND		62	µg/Kg-dry	100	4/30/2011 07:15 PM
Bromobenzene	ND		190	µg/Kg-dry	100	4/30/2011 07:15 PM
Bromochloromethane	ND		190	µg/Kg-dry	100	4/30/2011 07:15 PM
Bromodichloromethane	ND		190	µg/Kg-dry	100	4/30/2011 07:15 PM
Bromoform	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
Carbon disulfide	ND		190	µg/Kg-dry	100	4/30/2011 07:15 PM
Carbon tetrachloride	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
Chlorobenzene	ND		190	µg/Kg-dry	100	4/30/2011 07:15 PM
Chloroethane	ND		380	µg/Kg-dry	100	4/30/2011 07:15 PM

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

ALS Group USA, Corp

Date: *03-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-46
Collection Date: 4/29/2011 01:10 PM

Work Order: 1104752
Lab ID: 1104752-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
Chloromethane	ND		380	µg/Kg-dry	100	4/30/2011 07:15 PM
cis-1,2-Dichloroethene	ND		250	µg/Kg-dry	100	4/30/2011 07:15 PM
cis-1,3-Dichloropropene	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
Dibromochloromethane	ND		250	µg/Kg-dry	100	4/30/2011 07:15 PM
Dibromomethane	ND		250	µg/Kg-dry	100	4/30/2011 07:15 PM
Dichlorodifluoromethane	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
Diethyl ether	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
Diisopropyl ether	ND		620	µg/Kg-dry	100	4/30/2011 07:15 PM
Ethyl tert butyl ether	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
Ethylbenzene	ND		250	µg/Kg-dry	100	4/30/2011 07:15 PM
Heptane	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
Hexachlorobutadiene	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
Hexachloroethane	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
Hexane	ND		380	µg/Kg-dry	100	4/30/2011 07:15 PM KH
Iodomethane	ND	UJ	310	µg/Kg-dry	100	4/30/2011 07:15 PM 5/3/11
Isopropylbenzene	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
m,p-Xylene	ND		250	µg/Kg-dry	100	4/30/2011 07:15 PM
Methyl tert-butyl ether	ND		190	µg/Kg-dry	100	4/30/2011 07:15 PM
Methylene chloride	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
n-Butylbenzene	ND		62	µg/Kg-dry	100	4/30/2011 07:15 PM
n-Propylbenzene	ND		250	µg/Kg-dry	100	4/30/2011 07:15 PM
Naphthalene	ND		250	µg/Kg-dry	100	4/30/2011 07:15 PM
o-Xylene	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
p-Isopropyltoluene	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
sec-Butylbenzene	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
Styrene	ND		190	µg/Kg-dry	100	4/30/2011 07:15 PM
tert-Amyl methyl ether	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
tert-Butyl alcohol	ND		620	µg/Kg-dry	100	4/30/2011 07:15 PM
tert-Butylbenzene	ND		190	µg/Kg-dry	100	4/30/2011 07:15 PM
Tetrachloroethene	ND		62	µg/Kg-dry	100	4/30/2011 07:15 PM
Tetrahydrofuran	ND		190	µg/Kg-dry	100	4/30/2011 07:15 PM
Toluene	ND		190	µg/Kg-dry	100	4/30/2011 07:15 PM
trans-1,2-Dichloroethene	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
trans-1,3-Dichloropropene	ND		190	µg/Kg-dry	100	4/30/2011 07:15 PM
trans-1,4-Dichloro-2-butene	ND		440	µg/Kg-dry	100	4/30/2011 07:15 PM
Trichloroethene	ND		62	µg/Kg-dry	100	4/30/2011 07:15 PM
Trichlorofluoromethane	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
Vinyl acetate	ND		1,900	µg/Kg-dry	100	4/30/2011 07:15 PM
Vinyl chloride	ND		50	µg/Kg-dry	100	4/30/2011 07:15 PM

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

ALS Group USA, Corp

Date: *03-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-46
Collection Date: 4/29/2011 01:10 PM

Work Order: 1104752
Lab ID: 1104752-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethene, Total	ND		310	µg/Kg-dry	100	4/30/2011 07:15 PM
1,3-Dichloropropene, Total	ND		120	µg/Kg-dry	100	4/30/2011 07:15 PM
Xylenes, Total	ND		380	µg/Kg-dry	100	4/30/2011 07:15 PM
Surr: 1,2-Dichloroethane-d4	*107*		*70-120*	*%REC*	100	4/30/2011 07:15 PM
Surr: 4-Bromofluorobenzene	*105*		*75-120*	*%REC*	100	4/30/2011 07:15 PM
Surr: Dibromofluoromethane	*101*		*85-115*	*%REC*	100	4/30/2011 07:15 PM
Surr: Toluene-d8	*98.3*		*85-115*	*%REC*	100	4/30/2011 07:15 PM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**20**		**0.050**	**% of sample**	1	5/2/2011 08:33 AM

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

ALS Group USA, Corp

Date: 03-May-11

Client: Horizon Environmental
Work Order: 1104752
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89560A** Instrument ID **VMS5** Method: **SW8260**

MBLK Sample ID: **VBLKW1-110430-R89560A** Units: **µg/L** Analysis Date: **4/30/2011 11:57 AM**

Client ID: Run ID: **VMS5_110430A** SeqNo: **1613850** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1,2-Trichlorotrifluoroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,1-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	3.0								
1,2,3-Trichloropropane	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	1.0								
1,2-Dibromoethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	2.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,3-Dichlorobenzene	ND	2.0								
1,3-Dichloropropane	ND	1.0								
1,4-Dichlorobenzene	ND	2.0								
2,2-Dichloropropane	ND	1.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	2.0								
2-Hexanone	ND	5.0								
2-Methylnaphthalene	ND	10								
4-Chlorotoluene	ND	1.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	20								
Acrylonitrile	ND	1.0								
Benzene	ND	1.0								
Bromobenzene	ND	1.0								
Bromochloromethane	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Carbon disulfide	ND	2.5								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	5.67	1.0								

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

Client: Horizon Environmental
Work Order: 1104752
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89560A** Instrument ID **VMS5** Method: **SW8260**

cis-1,2-Dichloroethene	ND	1.0					
cis-1,3-Dichloropropene	ND	1.0					
Dibromochloromethane	ND	1.0					
Dibromomethane	ND	1.0					
Dichlorodifluoromethane	ND	1.0					
Diethyl ether	ND	10					
Diisopropyl ether	ND	5.0					
Ethyl tert butyl ether	ND	5.0					
Ethylbenzene	ND	1.0					
Hexachlorobutadiene	ND	5.0					
Hexachloroethane	ND	1.0					
Hexane	ND	5.0					
Iodomethane	ND	5.0					
Isopropylbenzene	ND	1.0					
m,p-Xylene	ND	2.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
n-Butylbenzene	ND	1.0					
n-Propylbenzene	ND	1.0					
Naphthalene	ND	5.0					
o-Xylene	ND	1.0					
p-Isopropyltoluene	ND	2.0					
sec-Butylbenzene	ND	2.0					
Styrene	ND	1.0					
tert-Butyl alcohol	ND	50					
tert-Butylbenzene	ND	2.0					
Tetrachloroethene	ND	2.0					
Tetrahydrofuran	ND	10					
Toluene	ND	1.0					
trans-1,2-Dichloroethene	ND	1.0					
trans-1,3-Dichloropropene	ND	1.0					
trans-1,4-Dichloro-2-butene	ND	5.0					
Trichloroethene	ND	1.0					
Trichlorofluoromethane	ND	1.0					
Vinyl acetate	ND	1.0					
Vinyl chloride	ND	1.0					
1,2-Dichloroethene, Total	ND	2.0					
1,3-Dichloropropene, Total	ND	2.0					
Xylenes, Total	ND	2.0					
Surr: 1,2-Dichloroethane-d4	*105.3*	0	*100*	0	*105*	*70-120*	0
Surr: 4-Bromofluorobenzene	*99.2*	0	*100*	0	*99.2*	*75-120*	0
Surr: Dibromofluoromethane	*102.4*	0	*100*	0	*102*	*85-115*	0
Surr: Toluene-d8	*100.7*	0	*100*	0	*101*	*85-120*	0

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

Client: Horizon Environmental
Work Order: 1104752
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89560A** Instrument ID **VMS5** Method: **SW8260**

LCS Sample ID: **VLCSW1-110430-R89560A** Units: **µg/L** Analysis Date: **4/30/2011 10:40 AM**

Client ID: Run ID: **VMS5_110430A** SeqNo: **1613828** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	17.66	1.0	20	0	88.3	80-130	0			
1,1,1-Trichloroethane	18.47	1.0	20	0	92.4	65-130	0			
1,1,2,2-Tetrachloroethane	17.32	1.0	20	0	86.6	65-130	0			
1,1,2-Trichloroethane	17.6	1.0	20	0	88	75-125	0			
1,1-Dichloroethane	17.79	1.0	20	0	89	70-135	0			
1,1-Dichloroethene	18.92	1.0	20	0	94.6	70-130	0			
1,1-Dichloropropene	18.12	1.0	20	0	90.6	75-130	0			
1,2,3-Trichlorobenzene	22.01	3.0	20	0	110	55-140	0			
1,2,3-Trichloropropane	17.64	1.0	20	0	88.2	75-125	0			
1,2,4-Trichlorobenzene	21.09	1.0	20	0	105	65-135	0			
1,2,4-Trimethylbenzene	18.03	1.0	20	0	90.2	75-130	0			
1,2-Dibromo-3-chloropropane	17.52	1.0	20	0	87.6	50-130	0			
1,2-Dibromoethane	17.51	1.0	20	0	87.6	80-120	0			
1,2-Dichlorobenzene	19.59	1.0	20	0	98	70-120	0			
1,2-Dichloroethane	18.53	1.0	20	0	92.6	70-130	0			
1,2-Dichloropropane	17.83	2.0	20	0	89.2	75-125	0			
1,3,5-Trimethylbenzene	18.46	1.0	20	0	92.3	75-130	0			
1,3-Dichlorobenzene	19.76	2.0	20	0	98.8	75-125	0			
1,3-Dichloropropane	16.32	1.0	20	0	81.6	75-125	0			
1,4-Dichlorobenzene	19.56	2.0	20	0	97.8	75-125	0			
2,2-Dichloropropane	18.97	1.0	20	0	94.8	70-135	0			
2-Butanone	18.33	5.0	20	0	91.6	30-150	0			
2-Chlorotoluene	18.31	2.0	20	0	91.6	75-125	0			
2-Hexanone	17.48	5.0	20	0	87.4	55-130	0			
4-Chlorotoluene	18.54	1.0	20	0	92.7	75-135	0			
4-Methyl-2-pentanone	17.48	5.0	20	0	87.4	60-135	0			
Acetone	20.82	20	20	0	104	40-140	0			
Acrylonitrile	17.19	1.0	20	0	86	70-135	0			
Benzene	18.51	1.0	20	0	92.6	80-120	0			
Bromobenzene	17.67	1.0	20	0	88.4	75-125	0			
Bromochloromethane	18.3	1.0	20	0	91.5	65-130	0			
Bromodichloromethane	18.16	1.0	20	0	90.8	75-120	0			
Bromoform	16.93	1.0	20	0	84.6	70-130	0			
Carbon disulfide	20.25	2.5	20	0	101	35-165	0			
Carbon tetrachloride	18.58	1.0	20	0	92.9	65-140	0			
Chlorobenzene	18.26	1.0	20	0	91.3	80-120	0			
Chloroethane	22.4	1.0	20	0	112	60-135	0			
Chloroform	18.02	1.0	20	0	90.1	65-135	0			
Chloromethane	23.43	1.0	20	0	117	70-125	0			B
cis-1,2-Dichloroethene	18.12	1.0	20	0	90.6	70-125	0			
cis-1,3-Dichloropropene	18.26	1.0	20	0	91.3	70-130	0			
Dibromochloromethane	16.91	1.0	20	0	84.6	60-135	0			

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

Client: Horizon Environmental
Work Order: 1104752
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89560A** Instrument ID **VMS5** Method: **SW8260**

Dibromomethane	17.58	1.0	20	0	87.9	75-125	0
Dichlorodifluoromethane	20.76	1.0	20	0	104	30-155	0
Ethylbenzene	18.12	1.0	20	0	90.6	75-125	0
Hexachlorobutadiene	24.6	5.0	20	0	123	50-140	0
Hexachloroethane	20.21	1.0	20	0	101	70-135	0
Iodomethane	15.38	5.0	20	0	76.9	70-135	0
Isopropylbenzene	18.53	1.0	20	0	92.6	75-125	0
m,p-Xylene	36.44	2.0	40	0	91.1	75-130	0
Methyl tert-butyl ether	19.07	5.0	20	0	95.4	65-125	0
Methylene chloride	17.97	5.0	20	0	89.8	55-140	0
n-Butylbenzene	21.08	1.0	20	0	105	70-135	0
n-Propylbenzene	18.42	1.0	20	0	92.1	70-130	0
Naphthalene	20.26	5.0	20	0	101	55-140	0
o-Xylene	17.95	1.0	20	0	89.8	80-120	0
p-Isopropyltoluene	19.78	2.0	20	0	98.9	75-130	0
sec-Butylbenzene	19.05	2.0	20	0	95.2	70-125	0
Styrene	17.05	1.0	20	0	85.2	65-135	0
tert-Butylbenzene	18.77	2.0	20	0	93.8	70-130	0
Tetrachloroethene	19.05	2.0	20	0	95.2	45-150	0
Tetrahydrofuran	16.36	10	20	0	81.8	70-135	0
Toluene	17.52	1.0	20	0	87.6	75-120	0
trans-1,2-Dichloroethene	18.71	1.0	20	0	93.6	60-140	0
trans-1,3-Dichloropropene	17.82	1.0	20	0	89.1	55-140	0
trans-1,4-Dichloro-2-butene	15.52	5.0	20	0	77.6	70-135	0
Trichloroethene	17.66	1.0	20	0	88.3	70-125	0
Trichlorofluoromethane	17.56	1.0	20	0	87.8	60-145	0
Vinyl chloride	22.95	1.0	20	0	115	50-145	0
Xylenes, Total	54.39	2.0	60	0	90.6	75-130	0
Surr: 1,2-Dichloroethane-d4	*104.4*	0	*100*	0	*104*	*70-120*	0
Surr: 4-Bromofluorobenzene	*99.13*	0	*100*	0	*99.1*	*75-120*	0
Surr: Dibromofluoromethane	*102*	0	*100*	0	*102*	*85-115*	0
Surr: Toluene-d8	*100.2*	0	*100*	0	*100*	*85-120*	0

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

Client: Horizon Environmental
Work Order: 1104752
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89560A** Instrument ID **VMS5** Method: **SW8260**

LCSD Sample ID: **VLCSDW1-110430-R89560A** Units: **µg/L** Analysis Date: **4/30/2011 11:06 AM**

Client ID: Run ID: **VMS5_110430A** SeqNo: **1613829** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	17.13	1.0	20	0	85.6	80-130	17.66	3.05	30	
1,1,1-Trichloroethane	17.58	1.0	20	0	87.9	65-130	18.47	4.94	30	
1,1,2,2-Tetrachloroethane	17.71	1.0	20	0	88.6	65-130	17.32	2.23	30	
1,1,2-Trichloroethane	17.7	1.0	20	0	88.5	75-125	17.6	0.567	30	
1,1-Dichloroethane	16.93	1.0	20	0	84.6	70-135	17.79	4.95	30	
1,1-Dichloroethene	17.7	1.0	20	0	88.5	70-130	18.92	6.66	30	
1,1-Dichloropropene	16.87	1.0	20	0	84.4	75-130	18.12	7.14	30	
1,2,3-Trichlorobenzene	19.36	3.0	20	0	96.8	55-140	22.01	12.8	30	
1,2,3-Trichloropropane	18	1.0	20	0	90	75-125	17.64	2.02	30	
1,2,4-Trichlorobenzene	18.52	1.0	20	0	92.6	65-135	21.09	13	30	
1,2,4-Trimethylbenzene	17.14	1.0	20	0	85.7	75-130	18.03	5.06	30	
1,2-Dibromo-3-chloropropane	17.61	1.0	20	0	88	50-130	17.52	0.512	30	
1,2-Dibromoethane	17.42	1.0	20	0	87.1	80-120	17.51	0.515	30	
1,2-Dichlorobenzene	18.44	1.0	20	0	92.2	70-120	19.59	6.05	30	
1,2-Dichloroethane	17.86	1.0	20	0	89.3	70-130	18.53	3.68	30	
1,2-Dichloropropane	17.11	2.0	20	0	85.6	75-125	17.83	4.12	30	
1,3,5-Trimethylbenzene	17.53	1.0	20	0	87.6	75-130	18.46	5.17	30	
1,3-Dichlorobenzene	17.94	2.0	20	0	89.7	75-125	19.76	9.66	30	
1,3-Dichloropropane	15.93	1.0	20	0	79.6	75-125	16.32	2.42	30	
1,4-Dichlorobenzene	18.02	2.0	20	0	90.1	75-125	19.56	8.2	30	
2,2-Dichloropropane	17.84	1.0	20	0	89.2	70-135	18.97	6.14	30	
2-Butanone	19.24	5.0	20	0	96.2	30-150	18.33	4.84	30	
2-Chlorotoluene	17.46	2.0	20	0	87.3	75-125	18.31	4.75	30	
2-Hexanone	18.43	5.0	20	0	92.2	55-130	17.48	5.29	30	
4-Chlorotoluene	17.7	1.0	20	0	88.5	75-135	18.54	4.64	30	
4-Methyl-2-pentanone	18.47	5.0	20	0	92.4	60-135	17.48	5.51	30	
Acetone	21.77	20	20	0	109	40-140	20.82	4.46	30	
Acrylonitrile	17.95	1.0	20	0	89.8	70-135	17.19	4.33	30	
Benzene	17.51	1.0	20	0	87.6	80-120	18.51	5.55	30	
Bromobenzene	17.31	1.0	20	0	86.6	75-125	17.67	2.06	30	
Bromochloromethane	17.94	1.0	20	0	89.7	65-130	18.3	1.99	30	
Bromodichloromethane	17.52	1.0	20	0	87.6	75-120	18.16	3.59	30	
Bromoform	17.01	1.0	20	0	85	70-130	16.93	0.471	30	
Carbon disulfide	18.86	2.5	20	0	94.3	35-165	20.25	7.11	30	
Carbon tetrachloride	17.55	1.0	20	0	87.8	65-140	18.58	5.7	30	
Chlorobenzene	17.53	1.0	20	0	87.6	80-120	18.26	4.08	30	
Chloroethane	20.15	1.0	20	0	101	60-135	22.4	10.6	30	
Chloroform	17.39	1.0	20	0	87	65-135	18.02	3.56	30	
Chloromethane	20.79	1.0	20	0	104	70-125	23.43	11.9	30	B
cis-1,2-Dichloroethene	17.34	1.0	20	0	86.7	70-125	18.12	4.4	30	
cis-1,3-Dichloropropene	17.65	1.0	20	0	88.2	70-130	18.26	3.4	30	
Dibromochloromethane	16.92	1.0	20	0	84.6	60-135	16.91	0.0591	30	

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

Client: Horizon Environmental
Work Order: 1104752
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89560A** Instrument ID **VMS5** Method: **SW8260**

Dibromomethane	17.27	1.0	20	0	86.4	75-125	17.58	1.78	30
Dichlorodifluoromethane	19.28	1.0	20	0	96.4	30-155	20.76	7.39	30
Ethylbenzene	17.4	1.0	20	0	87	75-125	18.12	4.05	30
Hexachlorobutadiene	21.02	5.0	20	0	105	50-140	24.6	15.7	30
Hexachloroethane	17.51	1.0	20	0	87.6	70-135	20.21	14.3	30
Iodomethane	14.98	5.0	20	0	74.9	70-135	15.38	2.64	30
Isopropylbenzene	17.46	1.0	20	0	87.3	75-125	18.53	5.95	30
m,p-Xylene	35.35	2.0	40	0	88.4	75-130	36.44	3.04	30
Methyl tert-butyl ether	19.19	5.0	20	0	96	65-125	19.07	0.627	30
Methylene chloride	17.06	5.0	20	0	85.3	55-140	17.97	5.2	30
n-Butylbenzene	18.31	1.0	20	0	91.6	70-135	21.08	14.1	30
n-Propylbenzene	17.33	1.0	20	0	86.6	70-130	18.42	6.1	30
Naphthalene	18.78	5.0	20	0	93.9	55-140	20.26	7.58	30
o-Xylene	17.23	1.0	20	0	86.2	80-120	17.95	4.09	30
p-Isopropyltoluene	17.55	2.0	20	0	87.8	75-130	19.78	11.9	30
sec-Butylbenzene	17.62	2.0	20	0	88.1	70-125	19.05	7.8	30
Styrene	16.62	1.0	20	0	83.1	65-135	17.05	2.55	30
tert-Butylbenzene	17.55	2.0	20	0	87.8	70-130	18.77	6.72	30
Tetrachloroethene	17.91	2.0	20	0	89.6	45-150	19.05	6.17	30
Tetrahydrofuran	16.73	10	20	0	83.6	70-135	16.36	2.24	30
Toluene	16.87	1.0	20	0	84.4	75-120	17.52	3.78	30
trans-1,2-Dichloroethene	17.54	1.0	20	0	87.7	60-140	18.71	6.46	30
trans-1,3-Dichloropropene	17.52	1.0	20	0	87.6	55-140	17.82	1.7	30
trans-1,4-Dichloro-2-butene	16.46	5.0	20	0	82.3	70-135	15.52	5.88	30
Trichloroethene	16.62	1.0	20	0	83.1	70-125	17.66	6.07	30
Trichlorofluoromethane	16.36	1.0	20	0	81.8	60-145	17.56	7.08	30
Vinyl chloride	20.76	1.0	20	0	104	50-145	22.95	10	30
Xylenes, Total	52.58	2.0	60	0	87.6	75-130	54.39	3.38	30
Surr: 1,2-Dichloroethane-d4	*103.4*	0	*100*	0	*103*	*70-120*	104.4	*0.972*	*30*
Surr: 4-Bromofluorobenzene	*101.3*	0	*100*	0	*101*	*75-120*	99.13	*2.19*	*30*
Surr: Dibromofluoromethane	*103.1*	0	*100*	0	*103*	*85-115*	102	*1.12*	*30*
Surr: Toluene-d8	*99.97*	0	*100*	0	*100*	*85-120*	100.2	*0.25*	*30*

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

Client: Horizon Environmental
Work Order: 1104752
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89560A** Instrument ID **VMS5** Method: **SW8260**

MS Sample ID: **1104746-03A MS** Units: **µg/L** Analysis Date: **4/30/2011 08:06 PM**

Client ID: Run ID: **VMS5_110430A** SeqNo: **1613897** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	16.16	1.0	20	0	80.8	80-130	0			
1,1,1-Trichloroethane	16.45	1.0	20	0	82.2	65-130	0			
1,1,2,2-Tetrachloroethane	17.23	1.0	20	0	86.2	65-130	0			
1,1,2-Trichloroethane	17.3	1.0	20	0	86.5	75-125	0			
1,1-Dichloroethane	17.24	1.0	20	0	86.2	70-135	0			
1,1-Dichloroethene	18.08	1.0	20	0	90.4	70-130	0			
1,1-Dichloropropene	17.08	1.0	20	0	85.4	75-130	0			
1,2,3-Trichlorobenzene	16.2	3.0	20	0	81	55-140	0			
1,2,3-Trichloropropane	16.67	1.0	20	0	83.4	75-125	0			
1,2,4-Trichlorobenzene	15.68	1.0	20	0	78.4	65-135	0			
1,2,4-Trimethylbenzene	16.38	1.0	20	0	81.9	75-130	0			
1,2-Dibromo-3-chloropropane	16.28	1.0	20	0	81.4	50-130	0			
1,2-Dibromoethane	16.73	1.0	20	0	83.6	80-120	0			
1,2-Dichlorobenzene	17.05	1.0	20	0	85.2	70-120	0			
1,2-Dichloroethane	16.42	1.0	20	0	82.1	70-130	0			
1,2-Dichloropropane	17.22	2.0	20	0	86.1	75-125	0			
1,3,5-Trimethylbenzene	16.52	1.0	20	0	82.6	75-130	0			
1,3-Dichlorobenzene	16.79	2.0	20	0	84	75-125	0			
1,3-Dichloropropane	15.46	1.0	20	0	77.3	75-125	0			
1,4-Dichlorobenzene	16.61	2.0	20	0	83	75-125	0			
2,2-Dichloropropane	16.5	1.0	20	0	82.5	70-135	0			
2-Butanone	18.7	5.0	20	0	93.5	30-150	0			
2-Chlorotoluene	16.65	2.0	20	0	83.2	75-125	0			
2-Hexanone	18.35	5.0	20	0	91.8	55-130	0			
4-Chlorotoluene	16.39	1.0	20	0	82	75-135	0			
4-Methyl-2-pentanone	18.74	5.0	20	0	93.7	60-135	0			
Acetone	21.87	20	20	0	109	40-140	0			
Acrylonitrile	18.04	1.0	20	0	90.2	70-135	0			
Benzene	17.55	1.0	20	0	87.8	80-120	0			
Bromobenzene	16.31	1.0	20	0	81.6	75-125	0			
Bromochloromethane	17.63	1.0	20	0	88.2	65-130	0			
Bromodichloromethane	15.99	1.0	20	0	80	75-120	0			
Bromoform	15.25	1.0	20	0	76.2	70-130	0			
Carbon disulfide	19.4	2.5	20	0	97	35-165	0			
Carbon tetrachloride	16.49	1.0	20	0	82.4	65-140	0			
Chlorobenzene	17.22	1.0	20	0	86.1	80-120	0			
Chloroethane	19.03	1.0	20	0	95.2	60-135	0			
Chloroform	16.95	1.0	20	0	84.8	65-135	0			
Chloromethane	16.45	1.0	20	0	82.2	70-125	0			B
cis-1,2-Dichloroethene	17.03	1.0	20	0	85.2	70-125	0			
cis-1,3-Dichloropropene	16.72	1.0	20	0	83.6	70-130	0			
Dibromochloromethane	15.3	1.0	20	0	76.5	60-135	0			

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

Client: Horizon Environmental
Work Order: 1104752
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89560A** Instrument ID **VMS5** Method: **SW8260**

Dibromomethane	16.08	1.0	20	0	80.4	75-125	0	
Dichlorodifluoromethane	14.37	1.0	20	0	71.8	30-155	0	
Ethylbenzene	17.03	1.0	20	0	85.2	75-125	0	
Hexachlorobutadiene	16.84	5.0	20	0	84.2	50-140	0	
Hexachloroethane	16.31	1.0	20	0	81.6	70-135	0	
Iodomethane	8.28	5.0	20	0	41.4	70-135	0	S
Isopropylbenzene	16.82	1.0	20	0	84.1	75-125	0	
m,p-Xylene	34.06	2.0	40	0	85.2	75-130	0	
Methyl tert-butyl ether	18.46	5.0	20	0	92.3	65-125	0	
Methylene chloride	16.88	5.0	20	0	84.4	55-140	0	
n-Butylbenzene	17.01	1.0	20	0	85	70-135	0	
n-Propylbenzene	16.39	1.0	20	0	82	70-130	0	
Naphthalene	16.51	5.0	20	0	82.6	55-140	0	
o-Xylene	16.57	1.0	20	0	82.8	80-120	0	
p-Isopropyltoluene	16.47	2.0	20	0	82.4	75-130	0	
sec-Butylbenzene	16.74	2.0	20	0	83.7	70-125	0	
Styrene	16.01	1.0	20	0	80	65-135	0	
tert-Butylbenzene	16.57	2.0	20	0	82.8	70-130	0	
Tetrachloroethene	17.55	2.0	20	0	87.8	45-150	0	
Tetrahydrofuran	17.35	10	20	0	86.8	70-135	0	
Toluene	16.83	1.0	20	0	84.2	75-120	0	
trans-1,2-Dichloroethene	17.86	1.0	20	0	89.3	60-140	0	
trans-1,3-Dichloropropene	16.1	1.0	20	0	80.5	55-140	0	
trans-1,4-Dichloro-2-butene	14.37	5.0	20	0	71.8	70-135	0	
Trichloroethene	16.68	1.0	20	0	83.4	70-125	0	
Trichlorofluoromethane	15.51	1.0	20	0	77.6	60-145	0	
Vinyl chloride	18.84	1.0	20	0	94.2	50-145	0	
Xylenes, Total	50.63	2.0	60	0	84.4	75-130	0	
Surr: 1,2-Dichloroethane-d4	*95.03*	0	*100*	0	*95*	*70-120*	0	
Surr: 4-Bromofluorobenzene	*99.19*	0	*100*	0	*99.2*	*75-120*	0	
Surr: Dibromofluoromethane	*99.66*	0	*100*	0	*99.7*	*85-115*	0	
Surr: Toluene-d8	*100.4*	0	*100*	0	*100*	*85-120*	0	

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

Client: Horizon Environmental
Work Order: 1104752
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89560A** Instrument ID **VMS5** Method: **SW8260**

MSD Sample ID: **1104746-03A MSD** Units: **µg/L** Analysis Date: **4/30/2011 08:32 PM**

Client ID: Run ID: **VMS5_110430A** SeqNo: **1613898** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	16.05	1.0	20	0	80.2	80-130	16.16	0.683	30	
1,1,1-Trichloroethane	16.47	1.0	20	0	82.4	65-130	16.45	0.122	30	
1,1,2,2-Tetrachloroethane	17.36	1.0	20	0	86.8	65-130	17.23	0.752	30	
1,1,2-Trichloroethane	17.16	1.0	20	0	85.8	75-125	17.3	0.813	30	
1,1-Dichloroethane	17.24	1.0	20	0	86.2	70-135	17.24	0	30	
1,1-Dichloroethene	18	1.0	20	0	90	70-130	18.08	0.443	30	
1,1-Dichloropropene	16.59	1.0	20	0	83	75-130	17.08	2.91	30	
1,2,3-Trichlorobenzene	18.03	3.0	20	0	90.2	55-140	16.2	10.7	30	
1,2,3-Trichloropropane	16.72	1.0	20	0	83.6	75-125	16.67	0.299	30	
1,2,4-Trichlorobenzene	17.05	1.0	20	0	85.2	65-135	15.68	8.37	30	
1,2,4-Trimethylbenzene	16.25	1.0	20	0	81.2	75-130	16.38	0.797	30	
1,2-Dibromo-3-chloropropane	16.87	1.0	20	0	84.4	50-130	16.28	3.56	30	
1,2-Dibromoethane	16.52	1.0	20	0	82.6	80-120	16.73	1.26	30	
1,2-Dichlorobenzene	17.38	1.0	20	0	86.9	70-120	17.05	1.92	30	
1,2-Dichloroethane	15.88	1.0	20	0	79.4	70-130	16.42	3.34	30	
1,2-Dichloropropane	17.17	2.0	20	0	85.8	75-125	17.22	0.291	30	
1,3,5-Trimethylbenzene	16.18	1.0	20	0	80.9	75-130	16.52	2.08	30	
1,3-Dichlorobenzene	17.3	2.0	20	0	86.5	75-125	16.79	2.99	30	
1,3-Dichloropropane	15.46	1.0	20	0	77.3	75-125	15.46	0	30	
1,4-Dichlorobenzene	17.26	2.0	20	0	86.3	75-125	16.61	3.84	30	
2,2-Dichloropropane	16.52	1.0	20	0	82.6	70-135	16.5	0.121	30	
2-Butanone	19.4	5.0	20	0	97	30-150	18.7	3.67	30	
2-Chlorotoluene	16.55	2.0	20	0	82.8	75-125	16.65	0.602	30	
2-Hexanone	18	5.0	20	0	90	55-130	18.35	1.93	30	
4-Chlorotoluene	16.61	1.0	20	0	83	75-135	16.39	1.33	30	
4-Methyl-2-pentanone	18.43	5.0	20	0	92.2	60-135	18.74	1.67	30	
Acetone	22.61	20	20	0	113	40-140	21.87	3.33	30	
Acrylonitrile	18.09	1.0	20	0	90.4	70-135	18.04	0.277	30	
Benzene	17.59	1.0	20	0	88	80-120	17.55	0.228	30	
Bromobenzene	16.21	1.0	20	0	81	75-125	16.31	0.615	30	
Bromochloromethane	17.48	1.0	20	0	87.4	65-130	17.63	0.854	30	
Bromodichloromethane	15.77	1.0	20	0	78.8	75-120	15.99	1.39	30	
Bromoform	15.42	1.0	20	0	77.1	70-130	15.25	1.11	30	
Carbon disulfide	19.32	2.5	20	0	96.6	35-165	19.4	0.413	30	
Carbon tetrachloride	16.65	1.0	20	0	83.2	65-140	16.49	0.966	30	
Chlorobenzene	17.13	1.0	20	0	85.6	80-120	17.22	0.524	30	
Chloroethane	18.92	1.0	20	0	94.6	60-135	19.03	0.58	30	
Chloroform	16.65	1.0	20	0	83.2	65-135	16.95	1.79	30	
Chloromethane	17.61	1.0	20	0	88	70-125	16.45	6.81	30	B
cis-1,2-Dichloroethene	16.97	1.0	20	0	84.8	70-125	17.03	0.353	30	
cis-1,3-Dichloropropene	16.94	1.0	20	0	84.7	70-130	16.72	1.31	30	
Dibromochloromethane	15.57	1.0	20	0	77.8	60-135	15.3	1.75	30	

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

Client: Horizon Environmental
Work Order: 1104752
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89560A** Instrument ID **VMS5** Method: **SW8260**

Dibromomethane	16.47	1.0	20	0	82.4	75-125	16.08	2.4	30	
Dichlorodifluoromethane	14.31	1.0	20	0	71.6	30-155	14.37	0.418	30	
Ethylbenzene	16.76	1.0	20	0	83.8	75-125	17.03	1.6	30	
Hexachlorobutadiene	17.98	5.0	20	0	89.9	50-140	16.84	6.55	30	
Hexachloroethane	16.62	1.0	20	0	83.1	70-135	16.31	1.88	30	
Iodomethane	10.42	5.0	20	0	52.1	70-135	8.28	22.9	30	S
Isopropylbenzene	16.88	1.0	20	0	84.4	75-125	16.82	0.356	30	
m,p-Xylene	33.68	2.0	40	0	84.2	75-130	34.06	1.12	30	
Methyl tert-butyl ether	18.34	5.0	20	0	91.7	65-125	18.46	0.652	30	
Methylene chloride	17.07	5.0	20	0	85.4	55-140	16.88	1.12	30	
n-Butylbenzene	17.66	1.0	20	0	88.3	70-135	17.01	3.75	30	
n-Propylbenzene	16.49	1.0	20	0	82.4	70-130	16.39	0.608	30	
Naphthalene	18.29	5.0	20	0	91.4	55-140	16.51	10.2	30	
o-Xylene	16.6	1.0	20	0	83	80-120	16.57	0.181	30	
p-Isopropyltoluene	16.89	2.0	20	0	84.4	75-130	16.47	2.52	30	
sec-Butylbenzene	16.61	2.0	20	0	83	70-125	16.74	0.78	30	
Styrene	16.06	1.0	20	0	80.3	65-135	16.01	0.312	30	
tert-Butylbenzene	16.3	2.0	20	0	81.5	70-130	16.57	1.64	30	
Tetrachloroethene	17.38	2.0	20	0	86.9	45-150	17.55	0.973	30	
Tetrahydrofuran	16.78	10	20	0	83.9	70-135	17.35	3.34	30	
Toluene	16.73	1.0	20	0	83.6	75-120	16.83	0.596	30	
trans-1,2-Dichloroethene	17.98	1.0	20	0	89.9	60-140	17.86	0.67	30	
trans-1,3-Dichloropropene	15.81	1.0	20	0	79	55-140	16.1	1.82	30	
trans-1,4-Dichloro-2-butene	14.26	5.0	20	0	71.3	70-135	14.37	0.768	30	
Trichloroethene	16.73	1.0	20	0	83.6	70-125	16.68	0.299	30	
Trichlorofluoromethane	15.41	1.0	20	0	77	60-145	15.51	0.647	30	
Vinyl chloride	19.05	1.0	20	0	95.2	50-145	18.84	1.11	30	
Xylenes, Total	50.28	2.0	60	0	83.8	75-130	50.63	0.694	30	
Surr: 1,2-Dichloroethane-d4	*95.08*	0	*100*	0	*95.1*	*70-120*	95.03	*0.0526*	*30*	
Surr: 4-Bromofluorobenzene	*98.53*	0	*100*	0	*98.5*	*75-120*	99.19	*0.668*	*30*	
Surr: Dibromofluoromethane	*100.5*	0	*100*	0	*101*	*85-115*	99.66	*0.859*	*30*	
Surr: Toluene-d8	*100.1*	0	*100*	0	*100*	*85-120*	100.4	*0.379*	*30*	

The following samples were analyzed in this batch: 1104752-01A

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

Client: Horizon Environmental
Work Order: 1104752
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89634** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS1-R89634** Units: **% of sample** Analysis Date: **5/2/2011 08:33 AM**
Client ID: Run ID: **MOIST_110502B** SeqNo: **1615466** 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-R89634** Units: **% of sample** Analysis Date: **5/2/2011 08:33 AM**
Client ID: Run ID: **MOIST_110502B** SeqNo: **1615455** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1104741-02BDUP1** Units: **% of sample** Analysis Date: **5/2/2011 08:33 AM**
Client ID: Run ID: **MOIST_110502B** SeqNo: **1615437** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	12.47	0.050	0	0	0	0-0	11.03	12.3	20	

DUP Sample ID: **1104741-02BDUP2** Units: **% of sample** Analysis Date: **5/2/2011 08:33 AM**
Client ID: Run ID: **MOIST_110502B** SeqNo: **1615438** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	12.59	0.050	0	0	0	0-0	11.03	13.2	20	

DUP Sample ID: **1104748-25B DUP** Units: **% of sample** Analysis Date: **5/2/2011 08:33 AM**
Client ID: Run ID: **MOIST_110502B** SeqNo: **1615447** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	6.98	0.050	0	0	0	0-0	10.83	43.2	20	R

The following samples were analyzed in this batch: 1104752-01B

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

☐ ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

Page _____ of _____

COC ID: 11143

☐ ALS Environmental
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager: | ALS Work Order #: 1104752

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Reclamation Oil	A	VOC'S
Work Order		Project Number		B	
Company Name	Horizon Environmental	Bill To Company	Horizon Environmental	C	
Send Report To	Bill Davidson	Invoice Attn	Accounts Payable	D	
Address	4771 50th Street	Address	4771 50th Street	E	
				F	
City/State/Zip	Grand Rapids, MI 49512	City/State/Zip	Grand Rapids, MI 49512	G	
Phone	(616) 554-3210	Phone	(616) 554-3210	H	
Fax	(616) 554-3211	Fax	(616) 554-3211	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	RO-S-US-46	4-29-11	1310	Soil	methanol	3	X										
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Mike Potter

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☒ 24 Hour ☐ Other _____

Results Due Date:

Notes:

Relinquished by: Mike Potter	Date: 4-29-11	Time: 2:22pm	Received by: [signature]
Relinquished by: [signature]	Date: 4/29/11	Time:	Received by (Laboratory): [signature] 4/30/11 0830
Logged by (Laboratory): [signature]	Date: 4/30/11	Time: 0900	Checked by (Laboratory): [signature]

Cooler ID	Cooler Temp.
	3.2°C

QC Package: (Check One Box Below)
☐ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other _____
☐ TRRP CheckList
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2010 by ALS Environmental.

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL
Date: 4/8/11 Time:
Name:
Company:
Seal Broken By:
Date:

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL
Date: 4/8/11 Time:
Name:
Company:
Seal Broken By:
Date:

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL
Date: 4/8/11 Time:
Name:
Company:
Seal Broken By:
Date:

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070

CUSTODY SEAL
Date: 4/8/11 Time:
Name:
Company:
Date:

ALS Environmental
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CUSTODY SEAL
Date: 4/8/11 Time:
Name:
Company:
Seal Broken By:
Date:

PLACE

SERVICE	
AIR & GROUND COMBINED	
CANCELLED CHECKS OR CASH LETTERS	
OTHER (LIST COMMODITIES)	
SPECIAL INSTRUCTIONS	

CITY STATE ZIP CODE CITY STATE ZIP CODE

DECLARED VALUE ACCOUNT NO.

ADD'L INSURANCE COSTS

PIECES	DESCRIPTION OF WHAT IS BEING SHIPPED (BOX, PACK, ENVELOPE)	WEIGHT	CHARGES
5	[illegible]		

TOTAL $

☐ PREPAID ☐ BILL TO ACCT. ☐ COD

RECEIVED, Subject to rates and tariffs in effect on the date hereof

PICKED UP BY	DATE	TIME
DRIVER: [illegible]	4/8/11	A.M.
ROUTE #: [illegible]		6:07 P.M.

RECEIVED BY	DATE	TIME
		A.M.
ROUTE #:		P.M.

The property described above, in apparent good order, except as noted (contents and conditions of packages unknown), marked, consigned and destined as shown below, which said company agrees to carry to its usual place of delivery at said destination if within the territory of its highway operations. It is mutually agreed as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions of the carrier's tariff, which are hereby agreed to by the shipper and accepted for himself and his assigns.

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HORIZONENV-GR** Date/Time Received: **30-Apr-11 08:30**

Work Order: **1104752** Received by: **JR**

Checklist completed by Joseph Ribar (eSignature) 30-Apr-11 (Date) Reviewed by: Joseph Ribar (eSignature) 01-May-11 (Date)

Matrices: soil
Carrier name: City Transfer

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.2 c		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

DATA VALIDATION REPORT

RECLAMATION OIL SITE
6472 SELKIRK STREET
DETROIT, MICHIGAN

Date: May 3, 2011
Laboratory: ALS Laboratory Group (ALS), Holland, Michigan
Laboratory Work Order #: 1104751
Data Validation Performed By: Karen Hathaway, Horizon Environmental

This data validation report has been prepared by Horizon Environmental Corporation on behalf of the Respondents to the Administrative Settlement Agreement and Order on Consent for Removal Action Docket No. V-W-10-C-955 (Settlement Agreement) entered into by the U.S. Environmental Protection Agency (U.S. EPA) and Respondents[1] with an effective date of September 30, 2010.

This report documents the data validation for one TCLP Extract sample collected from the Reclamation Oil Site that was analyzed for the following parameters by U.S. Environmental Protection Agency (U.S. EPA) methods:

- Toxicity Characteristics Leaching Procedure (TCLP) Volatile Organic Compounds (VOC) by SW-846 Method 8260B.

All of the collected samples were analyzed by the laboratory (100% completeness). A Level II data package was requested from ALS. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

VOCs BY SW-846 METHOD 8260B

1. Samples

The following table summarizes the sample for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
RO-S-TCLP-01	1104751-01	TCLP Extract	4/29/2011	5/2/2011	5/2/2011

[1] The Respondents consist of Univar USA Inc., SPX Corporation, BorgWarner Inc., and Ford Motor Company.

2. Holding Times

The sample was analyzed within the required holding time limit of 14 days from sample collection.

3. Blanks

The method blank was free of target compound contamination above the reporting limit.

4. Surrogate Results

The surrogate recovery results were within the laboratory-established quality control (QC) limits.

5. Laboratory Control Sample (LCS) Results

The LCS percent recoveries were within laboratory-established QC limits.

6. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

The MS/MSD recoveries and RPDs were within laboratory QC limits.

7. Field Duplicate Results

No duplicate samples were collected. No qualification of the data is needed.

8. Overall Assessment

The VOC data are acceptable for use based on the information received.

ATTACHMENT

ALS LABORATORY GROUP
RESULTS SUMMARY WITH QUALIFIERS

ALS Environmental

03-May-2011

Bill Davidson
Horizon Environmental
4771 50th Street
Grand Rapids, MI 49512

Re: **Reclamation Oil** Work Order: **1104751**

Dear Bill,

ALS Environmental received 1 sample on 30-Apr-2011 08:30 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.

QC sample results for this data met 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,

Joseph Ribar

Electronically approved by: Joseph Ribar

Joseph Ribar
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

Certificate No: IL100452

ALS Group USA, Corp

Date: 03-May-11

Client: Horizon Environmental
Project: Reclamation Oil
Work Order: **1104751**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1104751-01	RO-S-TCLP-01	Tclp Extract		4/29/2011 13:20	4/30/2011 08:30	☐

Client: Horizon Environmental
Project: Reclamation Oil
Work Order: 1104751

Case Narrative

TCLP Volatiles - 40 CFR Part 261.24 (b)

Parameter	Maximum Concentration For Toxicity Characteristic (µg/L)
1,1-Dichloroethene	700
1,2-Dichloroethane	500
2-Butanone	200,000
Benzene	500
Carbon Tetrachloride	500
Chlorobenzene	100,000
Chloroform	6,000
Tetrachloroethene	700
Trichloroethene	500
Vinyl Chloride	200

ALS Group USA, Corp

Date: 03-May-11

Client: Horizon Environmental
Project: Reclamation Oil
WorkOrder: 1104751

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	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 detected below quantitation 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

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
TDL	Target Detection Limit

Units Reported	Description
µg/L	Micrograms per Liter

ALS Group USA, Corp

Date: *03-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-TCLP-01
Collection Date: 4/29/2011 01:20 PM

Work Order: 1104751
Lab ID: 1104751-01
Matrix: TCLP EXTRACT

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP VOLATILE ORGANICS			**SW8260**		Prep Date: **5/2/2011**	Analyst: **BG**
1,1-Dichloroethene	ND		20	µg/L	20	5/2/2011 05:48 PM
1,2-Dichloroethane	ND		20	µg/L	20	5/2/2011 05:48 PM
2-Butanone	ND		200	µg/L	20	5/2/2011 05:48 PM
Benzene	ND		20	µg/L	20	5/2/2011 05:48 PM
Carbon tetrachloride	ND		20	µg/L	20	5/2/2011 05:48 PM
Chlorobenzene	ND		20	µg/L	20	5/2/2011 05:48 PM
Chloroform	ND		20	µg/L	20	5/2/2011 05:48 PM
Tetrachloroethene	ND		20	µg/L	20	5/2/2011 05:48 PM
Trichloroethene	ND		20	µg/L	20	5/2/2011 05:48 PM
Vinyl chloride	ND		20	µg/L	20	5/2/2011 05:48 PM
Surr: 1,2-Dichloroethane-d4	*103*		*70-130*	*%REC*	20	5/2/2011 05:48 PM
Surr: 4-Bromofluorobenzene	*95.1*		*70-130*	*%REC*	20	5/2/2011 05:48 PM
Surr: Dibromofluoromethane	*103*		*70-130*	*%REC*	20	5/2/2011 05:48 PM
Surr: Toluene-d8	*99.1*		*70-130*	*%REC*	20	5/2/2011 05:48 PM

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

ALS Group USA, Corp

Date: 03-May-11

Client: Horizon Environmental
Work Order: 1104751
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89569** Instrument ID **VMS5** Method: **SW8260**

MBLK Sample ID: **VBLKW1-110502-R89569** Units: **µg/L** Analysis Date: **5/2/2011 11:12 AM**

Client ID: Run ID: **VMS5_110502A** SeqNo: **1614700** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
2-Butanone	ND	5.0								
Benzene	ND	1.0								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroform	ND	1.0								
Tetrachloroethene	ND	2.0								
Trichloroethene	ND	1.0								
Vinyl chloride	ND	1.0								
Surr: 1,2-Dichloroethane-d4	*103.2*	0	*100*	0	*103*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*97.08*	0	*100*	0	*97.1*	*75-120*	0			
Surr: Dibromofluoromethane	*101.9*	0	*100*	0	*102*	*85-115*	0			
Surr: Toluene-d8	*99.68*	0	*100*	0	*99.7*	*85-120*	0			

LCS Sample ID: **VLCSW1-110502-R89569** Units: **µg/L** Analysis Date: **5/2/2011 09:55 AM**

Client ID: Run ID: **VMS5_110502A** SeqNo: **1614086** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	18.19	1.0	20	0	91	70-130	0			
1,2-Dichloroethane	18.07	1.0	20	0	90.4	70-130	0			
2-Butanone	24.17	5.0	20	0	121	30-150	0			
Benzene	18.06	1.0	20	0	90.3	80-120	0			
Carbon tetrachloride	17.84	1.0	20	0	89.2	65-140	0			
Chlorobenzene	18.14	1.0	20	0	90.7	80-120	0			
Chloroform	17.84	1.0	20	0	89.2	65-135	0			
Tetrachloroethene	18.73	2.0	20	0	93.6	45-150	0			
Trichloroethene	17.33	1.0	20	0	86.6	70-125	0			
Vinyl chloride	21.63	1.0	20	0	108	50-145	0			
Surr: 1,2-Dichloroethane-d4	*103*	0	*100*	0	*103*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*99.57*	0	*100*	0	*99.6*	*75-120*	0			
Surr: Dibromofluoromethane	*102.5*	0	*100*	0	*102*	*85-115*	0			
Surr: Toluene-d8	*99.25*	0	*100*	0	*99.2*	*85-120*	0			

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

Client: Horizon Environmental
Work Order: 1104751
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89569** Instrument ID **VMS5** Method: **SW8260**

LCSD Sample ID: **VLCSDW1-110502-R89569** Units: **µg/L** Analysis Date: **5/2/2011 10:21 AM**

Client ID: Run ID: **VMS5_110502A** SeqNo: **1614096** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	17.78	1.0	20	0	88.9	70-130	18.19	2.28	30	
1,2-Dichloroethane	18.16	1.0	20	0	90.8	70-130	18.07	0.497	30	
2-Butanone	27.04	5.0	20	0	135	30-150	24.17	11.2	30	
Benzene	17.71	1.0	20	0	88.6	80-120	18.06	1.96	30	
Carbon tetrachloride	17.8	1.0	20	0	89	65-140	17.84	0.224	30	
Chlorobenzene	17.58	1.0	20	0	87.9	80-120	18.14	3.14	30	
Chloroform	17.53	1.0	20	0	87.6	65-135	17.84	1.75	30	
Tetrachloroethene	17.6	2.0	20	0	88	45-150	18.73	6.22	30	
Trichloroethene	17.2	1.0	20	0	86	70-125	17.33	0.753	30	
Vinyl chloride	20.35	1.0	20	0	102	50-145	21.63	6.1	30	
Surr: 1,2-Dichloroethane-d4	*103.9*	0	*100*	0	*104*	*70-120*	103	*0.85*	*30*	
Surr: 4-Bromofluorobenzene	*100.6*	0	*100*	0	*101*	*75-120*	99.57	*0.999*	*30*	
Surr: Dibromofluoromethane	*104.2*	0	*100*	0	*104*	*85-115*	102.5	*1.65*	*30*	
Surr: Toluene-d8	*98.29*	0	*100*	0	*98.3*	*85-120*	99.25	*0.972*	*30*	

MS Sample ID: **1104653-02A MS** Units: **µg/L** Analysis Date: **5/2/2011 07:31 PM**

Client ID: Run ID: **VMS5_110502A** SeqNo: **1615149** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	19.02	1.0	20	0	95.1	70-130	0			
1,2-Dichloroethane	17.7	1.0	20	0	88.5	70-130	0			
2-Butanone	23.1	5.0	20	0	116	30-150	0			
Benzene	18.16	1.0	20	0	90.8	80-120	0			
Carbon tetrachloride	18.45	1.0	20	0	92.2	65-140	0			
Chlorobenzene	17.82	1.0	20	0	89.1	80-120	0			
Chloroform	17.67	1.0	20	0	88.4	65-135	0			
Tetrachloroethene	18.49	2.0	20	0	92.4	45-150	0			
Trichloroethene	17.35	1.0	20	0	86.8	70-125	0			
Vinyl chloride	21.38	1.0	20	0	107	50-145	0			
Surr: 1,2-Dichloroethane-d4	*100.6*	0	*100*	0	*101*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*100.2*	0	*100*	0	*100*	*75-120*	0			
Surr: Dibromofluoromethane	*103.2*	0	*100*	0	*103*	*85-115*	0			
Surr: Toluene-d8	*99.91*	0	*100*	0	*99.9*	*85-120*	0			

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

Client: Horizon Environmental
Work Order: 1104751
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89569** Instrument ID **VMS5** Method: **SW8260**

MSD Sample ID: **1104653-02A MSD** Units: **µg/L** Analysis Date: **5/2/2011 07:56 PM**

Client ID: Run ID: **VMS5_110502A** SeqNo: **1615150** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	18.81	1.0	20	0	94	70-130	19.02	1.11	30	
1,2-Dichloroethane	17.49	1.0	20	0	87.4	70-130	17.7	1.19	30	
2-Butanone	23.16	5.0	20	0	116	30-150	23.1	0.259	30	
Benzene	17.52	1.0	20	0	87.6	80-120	18.16	3.59	30	
Carbon tetrachloride	17.94	1.0	20	0	89.7	65-140	18.45	2.8	30	
Chlorobenzene	17.59	1.0	20	0	88	80-120	17.82	1.3	30	
Chloroform	17.62	1.0	20	0	88.1	65-135	17.67	0.283	30	
Tetrachloroethene	17.98	2.0	20	0	89.9	45-150	18.49	2.8	30	
Trichloroethene	17.14	1.0	20	0	85.7	70-125	17.35	1.22	30	
Vinyl chloride	21.3	1.0	20	0	106	50-145	21.38	0.375	30	
Surr: 1,2-Dichloroethane-d4	*99.56*	0	*100*	0	*99.6*	*70-120*	100.6	*0.989*	*30*	
Surr: 4-Bromofluorobenzene	*100.6*	0	*100*	0	*101*	*75-120*	100.2	*0.389*	*30*	
Surr: Dibromofluoromethane	*103.5*	0	*100*	0	*104*	*85-115*	103.2	*0.319*	*30*	
Surr: Toluene-d8	*98.64*	0	*100*	0	*98.6*	*85-120*	99.91	*1.28*	*30*	

The following samples were analyzed in this batch: 1104751-01A

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

☐ **ALS Environmental**
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

Page _____ of _____

COC ID: 11096

☐ **ALS Environmental**
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager: | ALS Work Order #: 1104751

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Reclamation Oil	A	TCLP VOC's
Work Order		Project Number		B	
Company Name	Horizon Environmental	Bill To Company	Horizon Environmental	C	
Send Report To	Bill Davidson	Invoice Attn	Accounts Payable	D	
Address	4771 50th Street	Address	4771 50th Street	E	
				F	
City/State/Zip	Grand Rapids, MI 49512	City/State/Zip	Grand Rapids, MI 49512	G	
Phone	(616) 554-3210	Phone	(616) 554-3210	H	
Fax	(616) 554-3211	Fax	(616) 554-3211	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	RO-S-TCLP-01	4-29-11	1320	Soil		1	X										
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Mike Potts MPotts

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other _____

Results Due Date:

Notes:

Relinquished by: MPotts	Date: 4-29-11	Time: 2133	Received by:
Relinquished by:	Date: 4/29/11	Time:	Received by (Laboratory): 4/30/11 0830
Logged by (Laboratory):	Date: 4/30/11	Time: 0900	Checked by (Laboratory):

Cooler ID	Cooler Temp.
	3.2°C

QC Package: (Check One Box Below)
☐ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other _____
☐ TRRP CheckList
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2010 by ALS Environmental.

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL
Date: 4/8/22 Time:
Name:
Company:
Seal Broken By:
Date:

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL
Date: 4/8/22 Time:
Name:
Company:
Seal Broken By:
Date:

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL
Date: 4/8/22 Time:
Name:
Company:
Seal Broken By:
Date:

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070

Time:
Name:
Company:
Date:

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Holland, Michigan 49424
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Fax. +1 616 399 6185

CUSTODY SEAL
Date: 4/8/22 Time:
Name:
Company:
Seal Broken By:
Date:

PLA

CITY	STATE ZIP CODE	CITY	STATE ZIP		
DECLARED VALUE	ACCOUNT NO.				
ADDL INSURANCE COST					
PIECES	DESCRIPTION OF WHAT IS BEING SHIPPED (BOX, BAG, ENVELOPE)				CHARGES
5					

AIR & GROUND SERVICE
AIR & GROUND COMBINED
CANCELLED CHECKS OR CASH LETTERS
OTHER (LIST COMMODITIES)
SPECIAL INSTRUCTIONS

☐ PREPAID ☐ BILL TO ACCT. ☐ COD

TOTAL $

RECEIVED, Subject to rates and tariffs in effect on the date hereof.

PICKED UP BY	DATE	TIME	RECEIVED BY	DATE	TIME
DRIVER		A.M.			A.M.
ROUTE #:		P.M.	ROUTE #:		P.M.

The property described above, in apparent good order, except as noted (contents and conditions of packages unknown), marked, consigned and destined as shown below, which said company agrees to carry to its usual place of delivery at said destination if within the territory of its highway operations. It is mutually agreed as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions of the carrier's tariff, which are hereby agreed to by the shipper and accepted for himself and his assigns.

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HORIZONENV-GR** Date/Time Received: **30-Apr-11 08:30**

Work Order: **1104751** Received by: **JR**

Checklist completed by Joseph Ribar (eSignature) 30-Apr-11 (Date) Reviewed by: Joseph Ribar (eSignature) 01-May-11 (Date)

Matrices: soil
Carrier name: City Transfer

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.2 c		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

DATA VALIDATION REPORT

RECLAMATION OIL SITE
6472 SELKIRK STREET
DETROIT, MICHIGAN

Date: May 3, 2011
Laboratory: ALS Laboratory Group (ALS), Holland, Michigan
Laboratory Work Order #: 1104708
Data Validation Performed By: Karen Hathaway, Horizon Environmental

This data validation report has been prepared by Horizon Environmental Corporation on behalf of the Respondents to the Administrative Settlement Agreement and Order on Consent for Removal Action Docket No. V-W-10-C-955 (Settlement Agreement) entered into by the U.S. Environmental Protection Agency (U.S. EPA) and Respondents[1] with an effective date of September 30, 2010.

This report documents the data validation for one soil sample collected from the Reclamation Oil Site that was analyzed for the following parameters by U.S. Environmental Protection Agency (U.S. EPA) methods:

- Target Compound List (TCL) Volatile Organic Compounds (VOC) by SW-846 Method 8260B.

All of the collected samples were analyzed by the laboratory (100% completeness). A Level II data package was requested from ALS. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

VOCs BY SW-846 METHOD 8260B

1. Samples

The following table summarizes the sample for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
RO-S-VS-40	1104708-01	Soil	4/28/2011	4/29/2011

[1] The Respondents consist of Univar USA Inc., SPX Corporation, BorgWarner Inc., and Ford Motor Company.

2. Holding Times

The sample was analyzed within the required holding time limit of 14 days from sample collection.

3. Blanks

The method blank analyzed April 29, 2011 contained naphthalene at a concentration below the practical quantitation limit (PQL). No qualifications are required because the sample detection was much higher than the blank detection.

4. Surrogate Results

The surrogate recovery results were within the laboratory-established quality control (QC) limits.

5. Laboratory Control Sample (LCS) Results

The LCS percent recoveries were within laboratory-established QC limits.

6. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

The MS/MSD results had recoveries outside QC limits for the following: 2,2-dichloropropane, iodomethane, tetrahydrofuran, and trans-1,4-dichloro-2-butene. Quantitation limits for non-detected results for these compounds were flagged "UJ" as estimated.

7. Field Duplicate Results

Field duplicate samples were not collected. No qualification of the data is needed.

8. Overall Assessment

The VOC data are acceptable for use as qualified based on the information received.

ATTACHMENT

ALS LABORATORY GROUP
RESULTS SUMMARY WITH QUALIFIERS

ALS Environmental

02-May-2011

Bill Davidson
Horizon Environmental
4771 50th Street
Grand Rapids, MI 49512

Re: **Reclamation Oil** Work Order: **1104708**

Dear Bill,

ALS Environmental received 1 sample on 29-Apr-2011 07:30 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.

QC sample results for this data met 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 21.

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

Sincerely,

Joseph Ribar

Electronically approved by: Joseph Ribar

Joseph Ribar
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

Certificate No: IL100452

ALS Group USA, Corp

Date: 02-May-11

Client: Horizon Environmental
Project: Reclamation Oil
Work Order: **1104708**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1104708-01	RO-S-VS-40	Soil		4/28/2011 13:00	4/29/2011 07:30	☐

Client: Horizon Environmental
Project: Reclamation Oil
Work Order: 1104708

Case Narrative

QC Summary

Volatile Organic Compounds

Batch R89521, Method 8260, Sample 1104551-05A MS/MSD: Compound recoveries were outside control limits due to matrix interference.

ALS Group USA, Corp

Date: 02-May-11

Client: Horizon Environmental
Project: Reclamation Oil
WorkOrder: **1104708**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	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 detected below quantitation 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

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
TDL	Target Detection Limit

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group USA, Corp

Date: *02-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-40
Collection Date: 4/28/2011 01:00 PM

Work Order: 1104708
Lab ID: 1104708-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
1,1,1,2-Tetrachloroethane	ND		180	µg/Kg-dry	100	4/29/2011 12:08 PM
1,1,1-Trichloroethane	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
1,1,2,2-Tetrachloroethane	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
1,1,2-Trichloroethane	ND		61	µg/Kg-dry	100	4/29/2011 12:08 PM
1,1,2-Trichlorotrifluoroethane	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
1,1-Dichloroethane	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
1,1-Dichloroethene	ND		61	µg/Kg-dry	100	4/29/2011 12:08 PM
1,1-Dichloropropene	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
1,2,3-Trichlorobenzene	ND		240	µg/Kg-dry	100	4/29/2011 12:08 PM
1,2,3-Trichloropropane	ND		240	µg/Kg-dry	100	4/29/2011 12:08 PM
1,2,4-Trichlorobenzene	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
1,2,4-Trimethylbenzene	**3,200**		**120**	**µg/Kg-dry**	100	4/29/2011 12:08 PM
1,2-Dibromo-3-chloropropane	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
1,2-Dibromoethane	ND		180	µg/Kg-dry	100	4/29/2011 12:08 PM
1,2-Dichlorobenzene	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
1,2-Dichloroethane	ND		61	µg/Kg-dry	100	4/29/2011 12:08 PM
1,2-Dichloropropane	ND		61	µg/Kg-dry	100	4/29/2011 12:08 PM
1,3,5-Trimethylbenzene	**1,400**		**120**	**µg/Kg-dry**	100	4/29/2011 12:08 PM
1,3-Dichlorobenzene	ND		61	µg/Kg-dry	100	4/29/2011 12:08 PM
1,3-Dichloropropane	ND		61	µg/Kg-dry	100	4/29/2011 12:08 PM
1,4-Dichlorobenzene	ND		61	µg/Kg-dry	100	4/29/2011 12:08 PM KH
2,2-Dichloropropane	ND	UJ	61	µg/Kg-dry	100	4/29/2011 12:08 PM 5/3/11
2-Butanone	ND		920	µg/Kg-dry	100	4/29/2011 12:08 PM
2-Chlorotoluene	ND		61	µg/Kg-dry	100	4/29/2011 12:08 PM
2-Hexanone	ND		610	µg/Kg-dry	100	4/29/2011 12:08 PM
2-Methylnaphthalene	**2,900**		**370**	**µg/Kg-dry**	100	4/29/2011 12:08 PM
4-Chlorotoluene	ND		240	µg/Kg-dry	100	4/29/2011 12:08 PM
4-Methyl-2-pentanone	ND		610	µg/Kg-dry	100	4/29/2011 12:08 PM
Acetone	ND		550	µg/Kg-dry	100	4/29/2011 12:08 PM
Acrylonitrile	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
Benzene	ND		61	µg/Kg-dry	100	4/29/2011 12:08 PM
Bromobenzene	ND		180	µg/Kg-dry	100	4/29/2011 12:08 PM
Bromochloromethane	ND		180	µg/Kg-dry	100	4/29/2011 12:08 PM
Bromodichloromethane	ND		180	µg/Kg-dry	100	4/29/2011 12:08 PM
Bromoform	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
Carbon disulfide	ND		180	µg/Kg-dry	100	4/29/2011 12:08 PM
Carbon tetrachloride	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
Chlorobenzene	ND		180	µg/Kg-dry	100	4/29/2011 12:08 PM
Chloroethane	ND		370	µg/Kg-dry	100	4/29/2011 12:08 PM

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

ALS Group USA, Corp

Date: *02-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-40
Collection Date: 4/28/2011 01:00 PM

Work Order: 1104708
Lab ID: 1104708-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
Chloromethane	ND		370	µg/Kg-dry	100	4/29/2011 12:08 PM
cis-1,2-Dichloroethene	ND		240	µg/Kg-dry	100	4/29/2011 12:08 PM
cis-1,3-Dichloropropene	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
Dibromochloromethane	ND		240	µg/Kg-dry	100	4/29/2011 12:08 PM
Dibromomethane	ND		240	µg/Kg-dry	100	4/29/2011 12:08 PM
Dichlorodifluoromethane	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
Diethyl ether	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
Diisopropyl ether	ND		610	µg/Kg-dry	100	4/29/2011 12:08 PM
Ethyl tert butyl ether	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
Ethylbenzene	ND		240	µg/Kg-dry	100	4/29/2011 12:08 PM
Heptane	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
Hexachlorobutadiene	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
Hexachloroethane	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
Hexane	ND		370	µg/Kg-dry	100	4/29/2011 12:08 PM
Iodomethane	ND	UJ	310	µg/Kg-dry	100	4/29/2011 12:08 PM
Isopropylbenzene	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
m,p-Xylene	**1,500**		**240**	**µg/Kg-dry**	100	4/29/2011 12:08 PM
Methyl tert-butyl ether	ND		180	µg/Kg-dry	100	4/29/2011 12:08 PM
Methylene chloride	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
n-Butylbenzene	ND		61	µg/Kg-dry	100	4/29/2011 12:08 PM
n-Propylbenzene	ND		240	µg/Kg-dry	100	4/29/2011 12:08 PM
Naphthalene	**1,800**		**240**	**µg/Kg-dry**	100	4/29/2011 12:08 PM
o-Xylene	**490**		**120**	**µg/Kg-dry**	100	4/29/2011 12:08 PM
p-Isopropyltoluene	**4,300**		**120**	**µg/Kg-dry**	100	4/29/2011 12:08 PM
sec-Butylbenzene	**130**		**120**	**µg/Kg-dry**	100	4/29/2011 12:08 PM
Styrene	ND		180	µg/Kg-dry	100	4/29/2011 12:08 PM
tert-Amyl methyl ether	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
tert-Butyl alcohol	ND		610	µg/Kg-dry	100	4/29/2011 12:08 PM
tert-Butylbenzene	ND		180	µg/Kg-dry	100	4/29/2011 12:08 PM
Tetrachloroethene	ND		61	µg/Kg-dry	100	4/29/2011 12:08 PM
Tetrahydrofuran	ND	UJ	180	µg/Kg-dry	100	4/29/2011 12:08 PM
Toluene	**180**		**180**	**µg/Kg-dry**	100	4/29/2011 12:08 PM
trans-1,2-Dichloroethene	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
trans-1,3-Dichloropropene	ND		180	µg/Kg-dry	100	4/29/2011 12:08 PM
trans-1,4-Dichloro-2-butene	ND	UJ	430	µg/Kg-dry	100	4/29/2011 12:08 PM
Trichloroethene	**84**		**61**	**µg/Kg-dry**	100	4/29/2011 12:08 PM
Trichlorofluoromethane	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
Vinyl acetate	ND		1,800	µg/Kg-dry	100	4/29/2011 12:08 PM
Vinyl chloride	ND		49	µg/Kg-dry	100	4/29/2011 12:08 PM

KH 5/3/11

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

ALS Group USA, Corp

Date: *02-May-11*

Client: Horizon Environmental
Project: Reclamation Oil
Sample ID: RO-S-VS-40
Collection Date: 4/28/2011 01:00 PM

Work Order: 1104708
Lab ID: 1104708-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloroethene, Total	ND		310	µg/Kg-dry	100	4/29/2011 12:08 PM
1,3-Dichloropropene, Total	ND		120	µg/Kg-dry	100	4/29/2011 12:08 PM
Xylenes, Total	**2,000**		**370**	**µg/Kg-dry**	100	4/29/2011 12:08 PM
Surr: 1,2-Dichloroethane-d4	*104*		*70-120*	*%REC*	100	4/29/2011 12:08 PM
Surr: 4-Bromofluorobenzene	*105*		*75-120*	*%REC*	100	4/29/2011 12:08 PM
Surr: Dibromofluoromethane	*99.5*		*85-115*	*%REC*	100	4/29/2011 12:08 PM
Surr: Toluene-d8	*89.3*		*85-115*	*%REC*	100	4/29/2011 12:08 PM
MOISTURE			**A2540 G**			Analyst: **JJG**
Moisture	**18**		**0.050**	**% of sample**	1	4/29/2011 09:59 AM

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

ALS Group USA, Corp

Date: 02-May-11

Client: Horizon Environmental
Work Order: 1104708
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89521** Instrument ID **VMS8** Method: **SW8260**

MBLK Sample ID: **VBLKW2-110428-R89521** Units: **µg/L** Analysis Date: **4/29/2011 03:30 AM**

Client ID: Run ID: **VMS8_110428A** SeqNo: **1613272** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1,2-Trichlorotrifluoroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,1-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	3.0								
1,2,3-Trichloropropane	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	1.0								
1,2-Dibromoethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	2.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,3-Dichlorobenzene	ND	2.0								
1,3-Dichloropropane	ND	1.0								
1,4-Dichlorobenzene	ND	2.0								
2,2-Dichloropropane	ND	1.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	2.0								
2-Hexanone	ND	5.0								
2-Methylnaphthalene	ND	10								
4-Chlorotoluene	ND	1.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	20								
Acrylonitrile	ND	1.0								
Benzene	ND	1.0								
Bromobenzene	ND	1.0								
Bromochloromethane	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Carbon disulfide	ND	2.5								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								

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

Client: Horizon Environmental
Work Order: 1104708
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89521** Instrument ID **VMS8** Method: **SW8260**

cis-1,2-Dichloroethene	ND	1.0						
cis-1,3-Dichloropropene	ND	1.0						
Dibromochloromethane	ND	1.0						
Dibromomethane	ND	1.0						
Dichlorodifluoromethane	ND	1.0						
Diethyl ether	ND	10						
Diisopropyl ether	ND	5.0						
Ethyl tert butyl ether	ND	5.0						
Ethylbenzene	ND	1.0						
Hexachlorobutadiene	ND	5.0						
Hexachloroethane	ND	1.0						
Hexane	ND	5.0						
Iodomethane	ND	5.0						
Isopropylbenzene	ND	1.0						
m,p-Xylene	ND	2.0						
Methyl tert-butyl ether	ND	5.0						
Methylene chloride	ND	5.0						
n-Butylbenzene	ND	1.0						
n-Propylbenzene	ND	1.0						
Naphthalene	1.1	5.0						J
o-Xylene	ND	1.0						
p-Isopropyltoluene	ND	2.0						
sec-Butylbenzene	ND	2.0						
Styrene	ND	1.0						
tert-Butyl alcohol	ND	50						
tert-Butylbenzene	ND	2.0						
Tetrachloroethene	ND	2.0						
Tetrahydrofuran	ND	10						
Toluene	ND	1.0						
trans-1,2-Dichloroethene	ND	1.0						
trans-1,3-Dichloropropene	ND	1.0						
trans-1,4-Dichloro-2-butene	ND	5.0						
Trichloroethene	ND	1.0						
Trichlorofluoromethane	ND	1.0						
Vinyl acetate	ND	1.0						
Vinyl chloride	ND	1.0						
1,2-Dichloroethene, Total	ND	2.0						
1,3-Dichloropropene, Total	ND	2.0						
Xylenes, Total	ND	2.0						
Surr: 1,2-Dichloroethane-d4	*102.2*	0	*100*	0	*102*	*70-120*	0	
Surr: 4-Bromofluorobenzene	*98.06*	0	*100*	0	*98.1*	*75-120*	0	
Surr: Dibromofluoromethane	*102.9*	0	*100*	0	*103*	*85-115*	0	
Surr: Toluene-d8	*99.01*	0	*100*	0	*99*	*85-120*	0	

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

Client: Horizon Environmental
Work Order: 1104708
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89521** Instrument ID **VMS8** Method: **SW8260**

LCS Sample ID: **VLCSW1-110428-R89521** Units: **µg/L** Analysis Date: **4/29/2011 02:09 AM**

Client ID: Run ID: **VMS8_110428A** SeqNo: **1613270** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	18.44	1.0	20	0	92.2	80-130	0			
1,1,1-Trichloroethane	17.84	1.0	20	0	89.2	65-130	0			
1,1,2,2-Tetrachloroethane	18.6	1.0	20	0	93	65-130	0			
1,1,2-Trichloroethane	18.52	1.0	20	0	92.6	75-125	0			
1,1-Dichloroethane	16.48	1.0	20	0	82.4	70-135	0			
1,1-Dichloroethene	19.52	1.0	20	0	97.6	70-130	0			
1,1-Dichloropropene	18.74	1.0	20	0	93.7	75-130	0			
1,2,3-Trichlorobenzene	18.47	3.0	20	0	92.4	55-140	0			
1,2,3-Trichloropropane	17.77	1.0	20	0	88.8	75-125	0			
1,2,4-Trichlorobenzene	17.5	1.0	20	0	87.5	65-135	0			
1,2,4-Trimethylbenzene	18.67	1.0	20	0	93.4	75-130	0			
1,2-Dibromo-3-chloropropane	17.66	1.0	20	0	88.3	50-130	0			
1,2-Dibromoethane	19.03	1.0	20	0	95.2	80-120	0			
1,2-Dichlorobenzene	19.16	1.0	20	0	95.8	70-120	0			
1,2-Dichloroethane	18.6	1.0	20	0	93	70-130	0			
1,2-Dichloropropane	18.62	2.0	20	0	93.1	75-125	0			
1,3,5-Trimethylbenzene	19.42	1.0	20	0	97.1	75-130	0			
1,3-Dichlorobenzene	19.1	2.0	20	0	95.5	75-125	0			
1,3-Dichloropropane	18.87	1.0	20	0	94.4	75-125	0			
1,4-Dichlorobenzene	19.2	2.0	20	0	96	75-125	0			
2,2-Dichloropropane	16.35	1.0	20	0	81.8	70-135	0			
2-Butanone	19.52	5.0	20	0	97.6	30-150	0			
2-Chlorotoluene	19.56	2.0	20	0	97.8	75-125	0			
2-Hexanone	19.57	5.0	20	0	97.8	55-130	0			
4-Chlorotoluene	19.62	1.0	20	0	98.1	75-135	0			
4-Methyl-2-pentanone	25.02	5.0	20	0	125	60-135	0			
Acetone	20.93	20	20	0	105	40-140	0			
Acrylonitrile	16.59	1.0	20	0	83	70-135	0			
Benzene	18.62	1.0	20	0	93.1	80-120	0			
Bromobenzene	18.75	1.0	20	0	93.8	75-125	0			
Bromochloromethane	17.8	1.0	20	0	89	65-130	0			
Bromodichloromethane	17.01	1.0	20	0	85	75-120	0			
Bromoform	18.3	1.0	20	0	91.5	70-130	0			
Carbon disulfide	21	2.5	20	0	105	35-165	0			
Carbon tetrachloride	17.43	1.0	20	0	87.2	65-140	0			
Chlorobenzene	19.14	1.0	20	0	95.7	80-120	0			
Chloroethane	18.79	1.0	20	0	94	60-135	0			
Chloroform	17.91	1.0	20	0	89.6	65-135	0			
Chloromethane	18.1	1.0	20	0	90.5	70-125	0			
cis-1,2-Dichloroethene	18.4	1.0	20	0	92	70-125	0			
cis-1,3-Dichloropropene	17.57	1.0	20	0	87.8	70-130	0			
Dibromochloromethane	17.41	1.0	20	0	87	60-135	0			

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

Client: Horizon Environmental
Work Order: 1104708
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89521** Instrument ID **VMS8** Method: **SW8260**

Dibromomethane	17.22	1.0	20	0	86.1	75-125	0
Dichlorodifluoromethane	16.42	1.0	20	0	82.1	30-155	0
Ethylbenzene	19.44	1.0	20	0	97.2	75-125	0
Hexachlorobutadiene	19.31	5.0	20	0	96.6	50-140	0
Hexachloroethane	19.06	1.0	20	0	95.3	70-135	0
Iodomethane	17.8	5.0	20	0	89	70-135	0
Isopropylbenzene	19.01	1.0	20	0	95	75-125	0
m,p-Xylene	37.54	2.0	40	0	93.8	75-130	0
Methyl tert-butyl ether	19.29	5.0	20	0	96.4	65-125	0
Methylene chloride	19.32	5.0	20	0	96.6	55-140	0
n-Butylbenzene	19.04	1.0	20	0	95.2	70-135	0
n-Propylbenzene	18.99	1.0	20	0	95	70-130	0
Naphthalene	18.36	5.0	20	0	91.8	55-140	0
o-Xylene	19.38	1.0	20	0	96.9	80-120	0
p-Isopropyltoluene	18.25	2.0	20	0	91.2	75-130	0
sec-Butylbenzene	19.01	2.0	20	0	95	70-125	0
Styrene	19.29	1.0	20	0	96.4	65-135	0
tert-Butylbenzene	19.1	2.0	20	0	95.5	70-130	0
Tetrachloroethene	19.18	2.0	20	0	95.9	45-150	0
Tetrahydrofuran	16.67	10	20	0	83.4	70-135	0
Toluene	18.72	1.0	20	0	93.6	75-120	0
trans-1,2-Dichloroethene	18.38	1.0	20	0	91.9	60-140	0
trans-1,3-Dichloropropene	17.56	1.0	20	0	87.8	55-140	0
trans-1,4-Dichloro-2-butene	15.85	5.0	20	0	79.2	70-135	0
Trichloroethene	18.2	1.0	20	0	91	70-125	0
Trichlorofluoromethane	14.84	1.0	20	0	74.2	60-145	0
Vinyl chloride	20.06	1.0	20	0	100	50-145	0
Xylenes, Total	56.92	2.0	60	0	94.9	75-130	0
Surr: 1,2-Dichloroethane-d4	*98.35*	0	*100*	0	*98.4*	*70-120*	0
Surr: 4-Bromofluorobenzene	*99.58*	0	*100*	0	*99.6*	*75-120*	0
Surr: Dibromofluoromethane	*99.46*	0	*100*	0	*99.5*	*85-115*	0
Surr: Toluene-d8	*102.2*	0	*100*	0	*102*	*85-120*	0

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

Client: Horizon Environmental
Work Order: 1104708
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89521** Instrument ID **VMS8** Method: **SW8260**

LCSD Sample ID: **VLCSDW1-110428-R89521** Units: **µg/L** Analysis Date: **4/29/2011 02:36 AM**

Client ID: Run ID: **VMS8_110428A** SeqNo: **1613271** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	17.41	1.0	20	0	87	80-130	18.44	5.75	30	
1,1,1-Trichloroethane	17.39	1.0	20	0	87	65-130	17.84	2.55	30	
1,1,2,2-Tetrachloroethane	18.03	1.0	20	0	90.2	65-130	18.6	3.11	30	
1,1,2-Trichloroethane	17.85	1.0	20	0	89.2	75-125	18.52	3.68	30	
1,1-Dichloroethane	17.73	1.0	20	0	88.6	70-135	16.48	7.31	30	
1,1-Dichloroethene	18.34	1.0	20	0	91.7	70-130	19.52	6.23	30	
1,1-Dichloropropene	18.24	1.0	20	0	91.2	75-130	18.74	2.7	30	
1,2,3-Trichlorobenzene	18.28	3.0	20	0	91.4	55-140	18.47	1.03	30	
1,2,3-Trichloropropane	17.46	1.0	20	0	87.3	75-125	17.77	1.76	30	
1,2,4-Trichlorobenzene	17.34	1.0	20	0	86.7	65-135	17.5	0.918	30	
1,2,4-Trimethylbenzene	17.4	1.0	20	0	87	75-130	18.67	7.04	30	
1,2-Dibromo-3-chloropropane	18.04	1.0	20	0	90.2	50-130	17.66	2.13	30	
1,2-Dibromoethane	18.08	1.0	20	0	90.4	80-120	19.03	5.12	30	
1,2-Dichlorobenzene	18.15	1.0	20	0	90.8	70-120	19.16	5.41	30	
1,2-Dichloroethane	18.15	1.0	20	0	90.8	70-130	18.6	2.45	30	
1,2-Dichloropropane	18.16	2.0	20	0	90.8	75-125	18.62	2.5	30	
1,3,5-Trimethylbenzene	18.11	1.0	20	0	90.6	75-130	19.42	6.98	30	
1,3-Dichlorobenzene	18.06	2.0	20	0	90.3	75-125	19.1	5.6	30	
1,3-Dichloropropane	18.02	1.0	20	0	90.1	75-125	18.87	4.61	30	
1,4-Dichlorobenzene	18.15	2.0	20	0	90.8	75-125	19.2	5.62	30	
2,2-Dichloropropane	16.07	1.0	20	0	80.4	70-135	16.35	1.73	30	
2-Butanone	19.7	5.0	20	0	98.5	30-150	19.52	0.918	30	
2-Chlorotoluene	18.26	2.0	20	0	91.3	75-125	19.56	6.87	30	
2-Hexanone	19.19	5.0	20	0	96	55-130	19.57	1.96	30	
4-Chlorotoluene	18.14	1.0	20	0	90.7	75-135	19.62	7.84	30	
4-Methyl-2-pentanone	25.03	5.0	20	0	125	60-135	25.02	0.04	30	
Acetone	21.46	20	20	0	107	40-140	20.93	2.5	30	
Acrylonitrile	16.84	1.0	20	0	84.2	70-135	16.59	1.5	30	
Benzene	18.22	1.0	20	0	91.1	80-120	18.62	2.17	30	
Bromobenzene	18.2	1.0	20	0	91	75-125	18.75	2.98	30	
Bromochloromethane	18.26	1.0	20	0	91.3	65-130	17.8	2.55	30	
Bromodichloromethane	16.59	1.0	20	0	83	75-120	17.01	2.5	30	
Bromoform	18.09	1.0	20	0	90.4	70-130	18.3	1.15	30	
Carbon disulfide	19.74	2.5	20	0	98.7	35-165	21	6.19	30	
Carbon tetrachloride	16.72	1.0	20	0	83.6	65-140	17.43	4.16	30	
Chlorobenzene	17.94	1.0	20	0	89.7	80-120	19.14	6.47	30	
Chloroethane	18.79	1.0	20	0	94	60-135	18.79	0	30	
Chloroform	17.91	1.0	20	0	89.6	65-135	17.91	0	30	
Chloromethane	19.06	1.0	20	0	95.3	70-125	18.1	5.17	30	
cis-1,2-Dichloroethene	18.3	1.0	20	0	91.5	70-125	18.4	0.545	30	
cis-1,3-Dichloropropene	17.24	1.0	20	0	86.2	70-130	17.57	1.9	30	
Dibromochloromethane	16.55	1.0	20	0	82.8	60-135	17.41	5.06	30	

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

Client: Horizon Environmental
Work Order: 1104708
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89521** Instrument ID **VMS8** Method: **SW8260**

Dibromomethane	17.18	1.0	20	0	85.9	75-125	17.22	0.233	30
Dichlorodifluoromethane	16.4	1.0	20	0	82	30-155	16.42	0.122	30
Ethylbenzene	18.02	1.0	20	0	90.1	75-125	19.44	7.58	30
Hexachlorobutadiene	18.7	5.0	20	0	93.5	50-140	19.31	3.21	30
Hexachloroethane	17.9	1.0	20	0	89.5	70-135	19.06	6.28	30
Iodomethane	17.68	5.0	20	0	88.4	70-135	17.8	0.676	30
Isopropylbenzene	17.93	1.0	20	0	89.6	75-125	19.01	5.85	30
m,p-Xylene	35.27	2.0	40	0	88.2	75-130	37.54	6.24	30
Methyl tert-butyl ether	19.02	5.0	20	0	95.1	65-125	19.29	1.41	30
Methylene chloride	17.22	5.0	20	0	86.1	55-140	19.32	11.5	30
n-Butylbenzene	17.33	1.0	20	0	86.6	70-135	19.04	9.4	30
n-Propylbenzene	17.72	1.0	20	0	88.6	70-130	18.99	6.92	30
Naphthalene	18.48	5.0	20	0	92.4	55-140	18.36	0.651	30
o-Xylene	18	1.0	20	0	90	80-120	19.38	7.38	30
p-Isopropyltoluene	16.95	2.0	20	0	84.8	75-130	18.25	7.39	30
sec-Butylbenzene	17.52	2.0	20	0	87.6	70-125	19.01	8.16	30
Styrene	17.93	1.0	20	0	89.6	65-135	19.29	7.31	30
tert-Butylbenzene	17.36	2.0	20	0	86.8	70-130	19.1	9.54	30
Tetrachloroethene	17.6	2.0	20	0	88	45-150	19.18	8.59	30
Tetrahydrofuran	18.52	10	20	0	92.6	70-135	16.67	10.5	30
Toluene	17.18	1.0	20	0	85.9	75-120	18.72	8.58	30
trans-1,2-Dichloroethene	17.24	1.0	20	0	86.2	60-140	18.38	6.4	30
trans-1,3-Dichloropropene	17.09	1.0	20	0	85.4	55-140	17.56	2.71	30
trans-1,4-Dichloro-2-butene	15.37	5.0	20	0	76.8	70-135	15.85	3.07	30
Trichloroethene	17.5	1.0	20	0	87.5	70-125	18.2	3.92	30
Trichlorofluoromethane	14.26	1.0	20	0	71.3	60-145	14.84	3.99	30
Vinyl chloride	20.76	1.0	20	0	104	50-145	20.06	3.43	30
Xylenes, Total	53.27	2.0	60	0	88.8	75-130	56.92	6.62	30
Surr: 1,2-Dichloroethane-d4	*100.3*	0	*100*	0	*100*	*70-120*	98.35	*1.94*	*30*
Surr: 4-Bromofluorobenzene	*99.39*	0	*100*	0	*99.4*	*75-120*	99.58	*0.191*	*30*
Surr: Dibromofluoromethane	*103.2*	0	*100*	0	*103*	*85-115*	99.46	*3.72*	*30*
Surr: Toluene-d8	*99.4*	0	*100*	0	*99.4*	*85-120*	102.2	*2.82*	*30*

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

Client: Horizon Environmental
Work Order: 1104708
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89521** Instrument ID **VMS8** Method: **SW8260**

MS Sample ID: **1104551-05A MS** Units: **µg/L** Analysis Date: **4/29/2011 12:35 PM**

Client ID: Run ID: **VMS8_110428A** SeqNo: **1613518** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	16.59	1.0	20	0	83	80-130	0			
1,1,1-Trichloroethane	17.71	1.0	20	0	88.6	65-130	0			
1,1,2,2-Tetrachloroethane	18	1.0	20	0	90	65-130	0			
1,1,2-Trichloroethane	17.85	1.0	20	0	89.2	75-125	0			
1,1-Dichloroethane	18.27	1.0	20	0	91.4	70-135	0			
1,1-Dichloroethene	19.92	1.0	20	0	99.6	70-130	0			
1,1-Dichloropropene	19.11	1.0	20	0	95.6	75-130	0			
1,2,3-Trichlorobenzene	15.98	3.0	20	0	79.9	55-140	0			
1,2,3-Trichloropropane	16.94	1.0	20	0	84.7	75-125	0			
1,2,4-Trichlorobenzene	15.67	1.0	20	0	78.4	65-135	0			
1,2,4-Trimethylbenzene	16.99	1.0	20	0	85	75-130	0			
1,2-Dibromo-3-chloropropane	15.18	1.0	20	0	75.9	50-130	0			
1,2-Dibromoethane	17.35	1.0	20	0	86.8	80-120	0			
1,2-Dichlorobenzene	17.37	1.0	20	0	86.8	70-120	0			
1,2-Dichloroethane	18.11	1.0	20	0	90.6	70-130	0			
1,2-Dichloropropane	18.41	2.0	20	0	92	75-125	0			
1,3,5-Trimethylbenzene	17.66	1.0	20	0	88.3	75-130	0			
1,3-Dichlorobenzene	17.65	2.0	20	0	88.2	75-125	0			
1,3-Dichloropropane	17.72	1.0	20	0	88.6	75-125	0			
1,4-Dichlorobenzene	17.52	2.0	20	0	87.6	75-125	0			
2,2-Dichloropropane	12.59	1.0	20	0	63	70-135	0			S
2-Butanone	20.68	5.0	20	0	103	30-150	0			
2-Chlorotoluene	17.87	2.0	20	0	89.4	75-125	0			
2-Hexanone	19.43	5.0	20	0	97.2	55-130	0			
4-Chlorotoluene	17.73	1.0	20	0	88.6	75-135	0			
4-Methyl-2-pentanone	25.2	5.0	20	0	126	60-135	0			
Acetone	26.18	20	20	0	131	40-140	0			
Acrylonitrile	15.81	1.0	20	0	79	70-135	0			
Benzene	18.59	1.0	20	0	93	80-120	0			
Bromobenzene	18.01	1.0	20	0	90	75-125	0			
Bromochloromethane	18.35	1.0	20	0	91.8	65-130	0			
Bromodichloromethane	15.85	1.0	20	0	79.2	75-120	0			
Bromoform	15.39	1.0	20	0	77	70-130	0			
Carbon disulfide	19.05	2.5	20	0	95.2	35-165	0			
Carbon tetrachloride	16.55	1.0	20	0	82.8	65-140	0			
Chlorobenzene	17.94	1.0	20	0	89.7	80-120	0			
Chloroethane	20.15	1.0	20	0	101	60-135	0			
Chloroform	17.98	1.0	20	0	89.9	65-135	0			
Chloromethane	15.78	1.0	20	0	78.9	70-125	0			
cis-1,2-Dichloroethene	18.74	1.0	20	0	93.7	70-125	0			
cis-1,3-Dichloropropene	15.82	1.0	20	0	79.1	70-130	0			
Dibromochloromethane	14.97	1.0	20	0	74.8	60-135	0			

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

Client: Horizon Environmental
Work Order: 1104708
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89521** Instrument ID **VMS8** Method: **SW8260**

Dibromomethane	16.6	1.0	20	0	83	75-125	0	
Dichlorodifluoromethane	16.74	1.0	20	0	83.7	30-155	0	
Ethylbenzene	18.14	1.0	20	0	90.7	75-125	0	
Hexachlorobutadiene	16.06	5.0	20	0	80.3	50-140	0	
Hexachloroethane	15.88	1.0	20	0	79.4	70-135	0	
Iodomethane	11.25	5.0	20	0	56.2	70-135	0	S
Isopropylbenzene	18.01	1.0	20	0	90	75-125	0	
m,p-Xylene	35.68	2.0	40	0	89.2	75-130	0	
Methyl tert-butyl ether	18.42	5.0	20	0	92.1	65-125	0	
Methylene chloride	19.17	5.0	20	0	95.8	55-140	0	
n-Butylbenzene	17.16	1.0	20	0	85.8	70-135	0	
n-Propylbenzene	17.75	1.0	20	0	88.8	70-130	0	
Naphthalene	17.33	5.0	20	0	86.6	55-140	0	
o-Xylene	18.13	1.0	20	0	90.6	80-120	0	
p-Isopropyltoluene	17.13	2.0	20	0	85.6	75-130	0	
sec-Butylbenzene	17.21	2.0	20	0	86	70-125	0	
Styrene	17.54	1.0	20	0	87.7	65-135	0	
tert-Butylbenzene	17.47	2.0	20	0	87.4	70-130	0	
Tetrachloroethene	17.66	2.0	20	0	88.3	45-150	0	
Tetrahydrofuran	317.3	10	20	255.4	309	70-135	0	SEO
Toluene	17.32	1.0	20	0	86.6	75-120	0	
trans-1,2-Dichloroethene	18.04	1.0	20	0	90.2	60-140	0	
trans-1,3-Dichloropropene	15.15	1.0	20	0	75.8	55-140	0	
trans-1,4-Dichloro-2-butene	12.32	5.0	20	0	61.6	70-135	0	S
Trichloroethene	17.77	1.0	20	0	88.8	70-125	0	
Trichlorofluoromethane	18.31	1.0	20	0	91.6	60-145	0	
Vinyl chloride	20.41	1.0	20	0	102	50-145	0	
Xylenes, Total	53.81	2.0	60	0	89.7	75-130	0	
Surr: 1,2-Dichloroethane-d4	*101.1*	0	*100*	0	*101*	*70-120*	0	
Surr: 4-Bromofluorobenzene	*100.1*	0	*100*	0	*100*	*75-120*	0	
Surr: Dibromofluoromethane	*100.7*	0	*100*	0	*101*	*85-115*	0	
Surr: Toluene-d8	*98.11*	0	*100*	0	*98.1*	*85-120*	0	

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

Client: Horizon Environmental
Work Order: 1104708
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89521** Instrument ID **VMS8** Method: **SW8260**

MSD Sample ID: **1104551-05A MSD** Units: **µg/L** Analysis Date: **4/29/2011 01:02 PM**

Client ID: Run ID: **VMS8_110428A** SeqNo: **1613508** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	17.07	1.0	20	0	85.4	80-130	16.59	2.85	30	
1,1,1-Trichloroethane	17.6	1.0	20	0	88	65-130	17.71	0.623	30	
1,1,2,2-Tetrachloroethane	17.03	1.0	20	0	85.2	65-130	18	5.54	30	
1,1,2-Trichloroethane	17.34	1.0	20	0	86.7	75-125	17.85	2.9	30	
1,1-Dichloroethane	15.53	1.0	20	0	77.6	70-135	18.27	16.2	30	
1,1-Dichloroethene	19.91	1.0	20	0	99.6	70-130	19.92	0.0502	30	
1,1-Dichloropropene	18.28	1.0	20	0	91.4	75-130	19.11	4.44	30	
1,2,3-Trichlorobenzene	16.9	3.0	20	0	84.5	55-140	15.98	5.6	30	
1,2,3-Trichloropropane	16.83	1.0	20	0	84.2	75-125	16.94	0.651	30	
1,2,4-Trichlorobenzene	16.15	1.0	20	0	80.8	65-135	15.67	3.02	30	
1,2,4-Trimethylbenzene	16.33	1.0	20	0	81.6	75-130	16.99	3.96	30	
1,2-Dibromo-3-chloropropane	16.59	1.0	20	0	83	50-130	15.18	8.88	30	
1,2-Dibromoethane	17.3	1.0	20	0	86.5	80-120	17.35	0.289	30	
1,2-Dichlorobenzene	17.37	1.0	20	0	86.8	70-120	17.37	0	30	
1,2-Dichloroethane	17.16	1.0	20	0	85.8	70-130	18.11	5.39	30	
1,2-Dichloropropane	16.41	2.0	20	0	82	75-125	18.41	11.5	30	
1,3,5-Trimethylbenzene	17.06	1.0	20	0	85.3	75-130	17.66	3.46	30	
1,3-Dichlorobenzene	17.29	2.0	20	0	86.4	75-125	17.65	2.06	30	
1,3-Dichloropropane	16.73	1.0	20	0	83.6	75-125	17.72	5.75	30	
1,4-Dichlorobenzene	17.36	2.0	20	0	86.8	75-125	17.52	0.917	30	
2,2-Dichloropropane	12.34	1.0	20	0	61.7	70-135	12.59	2.01	30	S
2-Butanone	18.89	5.0	20	0	94.4	30-150	20.68	9.05	30	
2-Chlorotoluene	16.94	2.0	20	0	84.7	75-125	17.87	5.34	30	
2-Hexanone	17.24	5.0	20	0	86.2	55-130	19.43	11.9	30	
4-Chlorotoluene	17.04	1.0	20	0	85.2	75-135	17.73	3.97	30	
4-Methyl-2-pentanone	22.41	5.0	20	0	112	60-135	25.2	11.7	30	
Acetone	26.03	20	20	0	130	40-140	26.18	0.575	30	
Acrylonitrile	18.5	1.0	20	0	92.5	70-135	15.81	15.7	30	
Benzene	17.54	1.0	20	0	87.7	80-120	18.59	5.81	30	
Bromobenzene	16.51	1.0	20	0	82.6	75-125	18.01	8.69	30	
Bromochloromethane	17.44	1.0	20	0	87.2	65-130	18.35	5.09	30	
Bromodichloromethane	15.43	1.0	20	0	77.2	75-120	15.85	2.69	30	
Bromoform	16.93	1.0	20	0	84.6	70-130	15.39	9.53	30	
Carbon disulfide	19.86	2.5	20	0	99.3	35-165	19.05	4.16	30	
Carbon tetrachloride	17.12	1.0	20	0	85.6	65-140	16.55	3.39	30	
Chlorobenzene	17.38	1.0	20	0	86.9	80-120	17.94	3.17	30	
Chloroethane	20.65	1.0	20	0	103	60-135	20.15	2.45	30	
Chloroform	17.55	1.0	20	0	87.8	65-135	17.98	2.42	30	
Chloromethane	18.7	1.0	20	0	93.5	70-125	15.78	16.9	30	
cis-1,2-Dichloroethene	17.55	1.0	20	0	87.8	70-125	18.74	6.56	30	
cis-1,3-Dichloropropene	14.85	1.0	20	0	74.2	70-130	15.82	6.33	30	
Dibromochloromethane	15.82	1.0	20	0	79.1	60-135	14.97	5.52	30	

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

Client: Horizon Environmental
Work Order: 1104708
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89521** Instrument ID **VMS8** Method: **SW8260**

Dibromomethane	15.76	1.0	20	0	78.8	75-125	16.6	5.19	30	
Dichlorodifluoromethane	17.29	1.0	20	0	86.4	30-155	16.74	3.23	30	
Ethylbenzene	17.25	1.0	20	0	86.2	75-125	18.14	5.03	30	
Hexachlorobutadiene	16.76	5.0	20	0	83.8	50-140	16.06	4.27	30	
Hexachloroethane	16.25	1.0	20	0	81.2	70-135	15.88	2.3	30	
Iodomethane	12.68	5.0	20	0	63.4	70-135	11.25	12	30	S
Isopropylbenzene	17.27	1.0	20	0	86.4	75-125	18.01	4.2	30	
m,p-Xylene	33.74	2.0	40	0	84.4	75-130	35.68	5.59	30	
Methyl tert-butyl ether	21.36	5.0	20	0	107	65-125	18.42	14.8	30	
Methylene chloride	19.37	5.0	20	0	96.8	55-140	19.17	1.04	30	
n-Butylbenzene	15.94	1.0	20	0	79.7	70-135	17.16	7.37	30	
n-Propylbenzene	16.82	1.0	20	0	84.1	70-130	17.75	5.38	30	
Naphthalene	17.3	5.0	20	0	86.5	55-140	17.33	0.173	30	
o-Xylene	17.06	1.0	20	0	85.3	80-120	18.13	6.08	30	
p-Isopropyltoluene	16	2.0	20	0	80	75-130	17.13	6.82	30	
sec-Butylbenzene	16.6	2.0	20	0	83	70-125	17.21	3.61	30	
Styrene	16.81	1.0	20	0	84	65-135	17.54	4.25	30	
tert-Butylbenzene	16.13	2.0	20	0	80.6	70-130	17.47	7.98	30	
Tetrachloroethene	17.8	2.0	20	0	89	45-150	17.66	0.79	30	
Tetrahydrofuran	300.5	10	20	255.4	225	70-135	317.3	5.46	30	SEO
Toluene	16.44	1.0	20	0	82.2	75-120	17.32	5.21	30	
trans-1,2-Dichloroethene	20.25	1.0	20	0	101	60-140	18.04	11.5	30	
trans-1,3-Dichloropropene	14.92	1.0	20	0	74.6	55-140	15.15	1.53	30	
trans-1,4-Dichloro-2-butene	12.22	5.0	20	0	61.1	70-135	12.32	0.815	30	S
Trichloroethene	17.34	1.0	20	0	86.7	70-125	17.77	2.45	30	
Trichlorofluoromethane	18.66	1.0	20	0	93.3	60-145	18.31	1.89	30	
Vinyl chloride	21.38	1.0	20	0	107	50-145	20.41	4.64	30	
Xylenes, Total	50.8	2.0	60	0	84.7	75-130	53.81	5.75	30	
Surr: 1,2-Dichloroethane-d4	*98.56*	0	*100*	0	*98.6*	*70-120*	101.1	*2.58*	*30*	
Surr: 4-Bromofluorobenzene	*95.82*	0	*100*	0	*95.8*	*75-120*	100.1	*4.39*	*30*	
Surr: Dibromofluoromethane	*105*	0	*100*	0	*105*	*85-115*	100.7	*4.21*	*30*	
Surr: Toluene-d8	*96.68*	0	*100*	0	*96.7*	*85-120*	98.11	*1.47*	*30*	

The following samples were analyzed in this batch: 1104708-01A

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

Client: Horizon Environmental
Work Order: 1104708
Project: Reclamation Oil

QC BATCH REPORT

Batch ID: **R89547** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS1-R89547** Units: **% of sample** Analysis Date: **4/29/2011 09:59 AM**
Client ID: Run ID: **MOIST_110429A** SeqNo: **1614165** 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-R89547** Units: **% of sample** Analysis Date: **4/29/2011 09:59 AM**
Client ID: Run ID: **MOIST_110429A** SeqNo: **1614161** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1104708-01B DUP** Units: **% of sample** Analysis Date: **4/29/2011 09:59 AM**
Client ID: **RO-S-VS-40** Run ID: **MOIST_110429A** SeqNo: **1613686** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	14.93	0.050	0	0	0	0-0	18.23	19.9	20	

DUP Sample ID: **1104709-03B DUP** Units: **% of sample** Analysis Date: **4/29/2011 09:59 AM**
Client ID: Run ID: **MOIST_110429A** SeqNo: **1614155** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	24	0.050	0	0	0	0-0	23.8	0.837	20	

The following samples were analyzed in this batch: 1104708-01B

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

☐ **ALS Environmental**
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

Page _____ of _____

COC ID: 11141

☐ **ALS Environmental**
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager: | ALS Work Order #: 1104708

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Reclamation Oil	A	VOC's
Work Order		Project Number		B	
Company Name	Horizon Environmental	Bill To Company	Horizon Environmental	C	
Send Report To	Bill Davidson	Invoice Attn	Accounts Payable	D	
Address	4771 50th Street	Address	4771 50th Street	E	
				F	
City/State/Zip	Grand Rapids, MI 49512	City/State/Zip	Grand Rapids, MI 49512	G	
Phone	(616) 554-3210	Phone	(616) 554-3210	H	
Fax	(616) 554-3211	Fax	(616) 554-3211	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	RO-S-US-40	4-28-11	1300	Soil	methanol	3	X										
2	~~Trip Blank~~ DFS																
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Mikel Potter

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☒ 24 Hour ☐ Other _____

Results Due Date:

Notes:

Relinquished by:	Date:	Time:	Received by:
Mikel Potter	4-28-11	2:48pm	[signature]
Relinquished by:	Date:	Time:	Received by (Laboratory):
[signature]	4/28/11		[signature] 4/29/11 0730
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):
DFS	4/29/11	0800	[signature]

Cooler ID	Cooler Temp.
	5.4°C

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other _____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL

Date: 4/27/11 Time:
Name: [illegible]
Company:

Seal Broken By:
Date:

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185

CUSTODY SEAL

Date: 4/28/11 Time:
Name: [illegible]
Company:

Seal Broken By:
Date:

CITY TRANSFER COMPANY (GROUND AIR BILL - SHIPPING RECEIPT) DATE [illegible]70911

PLACE AN "X" BELOW

SPECIAL SERVICE	
GROUND SERVICE	Y
AIR SERVICE	
AIR & GROUND COMBINED	
CANCELLED CHECKS OR CASH LETTERS	
OTHER (LIST COMMODITIES) ➡	
SPECIAL INSTRUCTIONS ➡	

SHIPPER COMPANY: ALS
CONTACT: Fred G PHONE #:
STREET ADDRESS: 2415 Chandler
CITY: Lincoln Park MI STATE, ZIP CODE:
DECLARED VALUE $:
ADD'L INSURANCE COST $:

RECEIVER: ALS
PHONE #: (616) 399-6070
STREET ADDRESS:
CITY: Holland STATE, ZIP CODE:

ACCOUNT NO.:

PIECES	(DESCRIPTION OF WHAT IS BEING SHIPPED: BOX, BAG, ENVELOPE)	WEIGHT LBS.	WEIGHT OZ.	$ CHARGES
2	Coolers Sealed	190		

TOTAL $

Except for "cash letters", the declared or declared value of this shipment is specifically declared not to be in excess of $100.00, unless a greater value is declared in writing on this bill of lading for which additional charges will be assessed. Carrier's liability with respect to "cash letter" shipments is limited in its tariffs.

Except on "cash letter" shipments, claims, if any, must be filed in writing within thirty (30) days after pickup. Claims involving "cash letter" shipments must be filed in writing within three (3) days after pickup. Claimant shall give oral notice to carrier as soon as it becomes aware of a potential claim involving a "cash letter" shipment.

CARRIER SHALL NOT BE LIABLE FOR CONSEQUENTIAL DAMAGES.

☐ PREPAID ☐ BILL TO ACCT. ☐ C.O.D.

RECEIVED, Subject to rates and tariffs in effect on the date hereof

PICKED UP BY	DATE	TIME
DRIVER: Mil	4-27-11	A.M.
ROUTE #: 203		P.M.

RECEIVED BY	DATE	TIME
[illegible]	4/28/11	A.M.
ROUTE #: 903		P.M.

The property described above, in apparent good order, except as noted (contents and conditions of packages unknown), marked, consigned and destined as shown below, which said company agrees to carry to the [illegible] not delivery at said destination if within the [illegible] at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HORIZONENV-GR** Date/Time Received: **29-Apr-11 07:30**

Work Order: **1104708** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 29-Apr-11 (Date) Reviewed by: Joseph Rebar (eSignature) 29-Apr-11 (Date)

Matrices: Soil
Carrier name: City Transfer

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	5.4 c		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

DATA VALIDATION REPORT

RECLAMATION OIL SITE
6472 SELKIRK STREET
DETROIT, MICHIGAN

Date: May 3, 2011
Laboratory: ALS Laboratory Group (ALS), Holland, Michigan
Laboratory Work Order #: 1104570
Data Validation Performed By: Karen Hathaway, Horizon Environmental

This data validation report has been prepared by Horizon Environmental Corporation on behalf of the Respondents to the Administrative Settlement Agreement and Order on Consent for Removal Action Docket No. V-W-10-C-955 (Settlement Agreement) entered into by the U.S. Environmental Protection Agency (U.S. EPA) and Respondents[1] with an effective date of September 30, 2010.

This report documents the data validation for one water sample collected from the Reclamation Oil Site that was analyzed for the following parameters by U.S. Environmental Protection Agency (U.S. EPA) methods:

- Target Compound List (TCL) Volatile Organic Compounds (VOC) by SW-846 Method 8260B;
- Polychlorinated biphenyls (PCB) by SW-846 Method 8082; and
- Arsenic and lead by SW-846 Method 6020A.

All of the collected samples were analyzed by the laboratory (100% completeness). A Level II data package was requested from ALS. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

VOCs BY SW-846 METHOD 8260B

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

[1] The Respondents consist of Univar USA Inc., SPX Corporation, BorgWarner Inc., and Ford Motor Company.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
RO-FB-01	1104570-01	Soil	4/21/2011	4/28-29/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection.

3. Blanks

The method blank analyzed April 28, 2011 was free of target compound contamination. The method blank analyzed April 29, 2011 contained 2-methylnaphthalene at a concentration below the practical quantitation limit (PQL). No qualifications are required because the sample result was non-detect at limits higher than the blank detection.

The sample was a field blank collected in accordance with the QAPP. The filed blank was free of target compound contamination.

4. Surrogate Results

The surrogate recovery results were within the laboratory-established quality control (QC) limits.

5. Laboratory Control Sample (LCS) Results

The LCS percent recoveries were within laboratory-established QC limits.

6. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

The MS/MSD results associated with the samples analyzed on April 28, 2011 had recoveries outside QC limits for the following: 2,2-dichloropropane, iodomethane and 4-methyl-2-pentanone. For samples analyzed on April 28, 2011, quantitation limits for non-detected results for these compounds were flagged "UJ" as estimated.

7. Field Duplicate Results

No duplicate samples were collected. No qualification of the data is needed as the sample was a field blank.

8. Overall Assessment

The VOC data are acceptable for use as qualified based on the information received.