



AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pLWJ1013038068

1RP - 2512

CHEVRON U S A INC

Thursday May 26, 2011,

HOBBS OCD

HOBBS OCD

MAY 31 2011

MAY 31 2011

To:

RECEIVED

RECEIVED

Geoffrey Leking
Environmental Engineer
NMOCD-Hobbs
1625 N. French Drive
Hobbs, NM 88240
Office: (575) 393-6161 Ext. 113
Cell: (575) 399-2990
email: geoffreyr.leting@state.nm.us

Ref: Chevron West Dollarhide Drinkard Unit 148 – RP 10-5-2512

Dear Mr. Leking,

Per our phone conversation this morning, please find attached a site plan illustrating the soil sampling results from our last site assessment. Two wall samples indicated elevated chloride concentrations (LX-SSW3' and LX-NWSW3'). We would like to overexcavate these two areas and then collect confirmation samples.

The attached figure also illustrates the results of the other sampling locations, we believe that we were successful in achieving vertical and lateral delineation across the site with the exception of the two proposed overexcavation areas.

With your approval, we would like to proceed with the overexcavation, confirmation sampling, and if laboratory results indicate concentrations similar to the ones observed from the other wall sampling locations, continue with the approved work plan (dated January 18, 2011) of placing a liner and then backfilling.

Please let me know if you have any questions or need additional information.

Sincerely,

Marcos Silvestri
713-807-6556 (tel)
713-520-6802 (fax)





HOBBS OCD

MAY 31 2011

RECEIVED

Prepared for:

Conestoga-Rovers & Associates
2135 South Loop 250 West
Midland TX 79703

May 10, 2011

Project: Dollarhide

Submittal Date: 04/29/2011
Group Number: 1244470
PO Number: 4038151
Release Number: DOLLARHIDE
State of Sample Origin: NM

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SB1(29-30') Grab Soil	6271808
SB1(49-50') Grab Soil	6271809
SB1(69-70') Grab Soil	6271810
SB2(29-30') Grab Soil	6271811
SB2(49-50') Grab Soil	6271812
SB2(69-70') Grab Soil	6271813
SB3(29-30') Grab Soil	6271814
SB3(39-40') Grab Soil	6271815
SB3(49-50') Grab Soil	6271816
SX-NSW3' Grab Soil	6271817
SX-WSW3' Grab Soil	6271818
SX-SSW3' Grab Soil	6271819
SX-ESW3' Grab Soil	6271820
LX-SSW3' Grab Soil	6271821
LX-ESW3' Grab Soil	6271822
LX-SWSW3' Grab Soil	6271823
LX-NWSW3' Grab Soil	6271824
Trip Blank Water	6271825

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO
ELECTRONIC

Conestoga-Rovers & Associates
LLI

Attn: Tom Larson

Attn: EDD Group - Report



Analysis Report

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COPY TO

Questions? Contact your Client Services Representative
Wendy A Kozma at (717) 656-2300 Ext. 1522

Respectfully Submitted,

A handwritten signature in black ink that reads "Robert Heisey".

Robert Heisey
Senior Specialist



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Analysis Report

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Sample Description: SB1(29-30') Grab Soil
West Dollarhide Drinkard Unit #148

LLI Sample # SW 6271808
LLI Group # 1244470
Account # 11713

Project Name: Dollarhide

Collected: 04/28/2011 11:45 by TL

Conestoga-Rovers & Associates
2135 South Loop 250 West
Midland TX 79703

Submitted: 04/29/2011 09:00

Reported: 05/10/2011 18:51

SB129

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Volatiles					
01638	TPH-GRO soil C6-C10	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 0.2	24.27
GC Volatiles					
08179	Benzene	SW-846 8021B 71-43-2	mg/kg N.D.	mg/kg 0.0023	24.27
08179	Ethylbenzene	100-41-4	N.D.	0.0023	24.27
08179	Toluene	108-88-3	N.D.	0.0023	24.27
08179	Total Xylenes	1330-20-7	N.D.	0.0058	24.27
GC Extractable TPH					
08270	TPH-DRO soil C10-C28	SW-846 8015B n.a.	mg/kg 4.8 J	mg/kg 4.7	1
Wet Chemistry					
07333	Chloride by IC (solid)	EPA 300.0 16887-00-6	mg/kg 69.6	mg/kg 5.9	1
Wet Chemistry					
00111	Moisture	SM20 2540 G n.a.	% 15.6	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	05/03/2011 02:05	Elizabeth J Marin	24.27
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	05/03/2011 02:05	Elizabeth J Marin	24.27
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	04/29/2011 15:53	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	05/04/2011 02:21	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	05/03/2011 09:15	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	05/09/2011 10:42	Ashley M Adams	1
01352	Deionized Water Extraction	EPA 300.0	1	11128621203A	05/08/2011 12:50	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	05/03/2011 17:20	Scott W Freisher	1



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Analysis Report

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Sample Description: SB1(49-50') Grab Soil
West Dollarhide Drinkard Unit #148

LLI Sample # SW 6271809
LLI Group # 1244470
Account # 11713

Project Name: Dollarhide

Collected: 04/28/2011 12:30 by TL

Conestoga-Rovers & Associates
2135 South Loop 250 West
Midland TX 79703

Submitted: 04/29/2011 09:00

Reported: 05/10/2011 18:51

SB149

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Volatiles					
01638	TPH-GRO soil C6-C10	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 0.2	25.25
GC Volatiles					
08179	Benzene	SW-846 8021B 71-43-2	mg/kg N.D.	mg/kg 0.0023	25.25
08179	Ethylbenzene	100-41-4	N.D.	0.0023	25.25
08179	Toluene	108-88-3	N.D.	0.0023	25.25
08179	Total Xylenes	1330-20-7	N.D.	0.0057	25.25
GC Extractable TPH					
08270	TPH-DRO soil C10-C28	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 4.5	1
Wet Chemistry					
07333	Chloride by IC (solid)	EPA 300.0 16887-00-6	mg/kg 754	mg/kg 114	20
Wet Chemistry					
00111	Moisture	SM20 2540 G n.a.	% 12.0	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	05/03/2011 02:41	Elizabeth J Marin	25.25
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	05/03/2011 02:41	Elizabeth J Marin	25.25
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	04/29/2011 15:54	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	05/04/2011 03:26	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	05/03/2011 09:15	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	05/09/2011 16:55	Ashley M Adams	20
01352	Deionized Water Extraction	EPA 300.0	1	11128621203A	05/08/2011 12:50	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	05/03/2011 17:20	Scott W Freisher	1



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Analysis Report

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Sample Description: SB1(69-70') Grab Soil
West Dollarhide Drinkard Unit #148

LLI Sample # SW 6271810
LLI Group # 1244470
Account # 11713

Project Name: Dollarhide

Collected: 04/28/2011 13:00 by TL

Conestoga-Rovers & Associates
2135 South Loop 250 West
Midland TX 79703

Submitted: 04/29/2011 09:00

Reported: 05/10/2011 18:51

SB169

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Volatiles					
01638	TPH-GRO soil C6-C10	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 0.2	24.06
GC Volatiles					
08179	Benzene	SW-846 8021B 71-43-2	mg/kg N.D.	mg/kg 0.0021	24.06
08179	Ethylbenzene	100-41-4	N.D.	0.0021	24.06
08179	Toluene	108-88-3	N.D.	0.0021	24.06
08179	Total Xylenes	1330-20-7	N.D.	0.0052	24.06
GC Extractable TPH					
08270	TPH-DRO soil C10-C28	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 4.3	1
Wet Chemistry					
07333	Chloride by IC (solid)	EPA 300.0 16887-00-6	mg/kg 60.4	mg/kg 27.1	5
Wet Chemistry					
00111	Moisture	SM20 2540 G n.a.	% 7.9	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	05/03/2011 03:17	Elizabeth J Marin	24.06
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	05/03/2011 03:17	Elizabeth J Marin	24.06
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	04/29/2011 15:57	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	05/04/2011 03:47	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	05/03/2011 09:15	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	05/09/2011 11:56	Ashley M Adams	5
01352	Deionized Water Extraction	EPA 300.0	1	11128621203A	05/08/2011 12:50	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	05/03/2011 17:20	Scott W Freisher	1



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Sample Description: SB2(29-30') Grab Soil
West Dollarhide Drinkard Unit #148

LLI Sample # SW 6271811
LLI Group # 1244470
Account # 11713

Project Name: Dollarhide

Collected: 04/28/2011 13:20 by TL

Conestoga-Rovers & Associates
2135 South Loop 250 West
Midland TX 79703

Submitted: 04/29/2011 09:00

Reported: 05/10/2011 18:51

SB229

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Volatiles					
01638	TPH-GRO soil C6-C10	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 0.2	24.25
GC Volatiles					
08179	Benzene	SW-846 8021B 71-43-2	mg/kg N.D.	mg/kg 0.0021	24.25
08179	Ethylbenzene	100-41-4	N.D.	0.0021	24.25
08179	Toluene	108-88-3	N.D.	0.0021	24.25
08179	Total Xylenes	1330-20-7	N.D.	0.0052	24.25
GC Extractable TPH					
08270	TPH-DRO soil C10-C28	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 4.2	1
Wet Chemistry					
07333	Chloride by IC (solid)	EPA 300.0 16887-00-6	mg/kg 2,670	mg/kg 267	50
Wet Chemistry					
00111	Moisture	SM20 2540 G n.a.	% 6.2	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	05/03/2011 03:53	Elizabeth J Marin	24.25
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	05/03/2011 03:53	Elizabeth J Marin	24.25
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	04/29/2011 15:58	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	05/04/2011 04:08	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	05/03/2011 09:15	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	05/09/2011 17:09	Ashley M Adams	50
01352	Deionized Water Extraction	EPA 300.0	1	11128621203A	05/08/2011 12:50	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	05/03/2011 17:20	Scott W Freisher	1



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Analysis Report

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Sample Description: SB2(49-50') Grab Soil
West Dollarhide Drinkard Unit #148

LLI Sample # SW 6271812
LLI Group # 1244470
Account # 11713

Project Name: Dollarhide

Collected: 04/28/2011 13:35 by TL

Conestoga-Rovers & Associates
2135 South Loop 250 West
Midland TX 79703

Submitted: 04/29/2011 09:00

Reported: 05/10/2011 18:51

SB249

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Volatiles					
01638	TPH-GRO soil C6-C10	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 0.2	25.56
GC Volatiles					
08179	Benzene	SW-846 8021B 71-43-2	mg/kg N.D.	mg/kg 0.0022	25.56
08179	Ethylbenzene	100-41-4	N.D.	0.0022	25.56
08179	Toluene	108-88-3	N.D.	0.0022	25.56
08179	Total Xylenes	1330-20-7	N.D.	0.0055	25.56
GC Extractable TPH					
08270	TPH-DRO soil C10-C28	SW-846 8015B n.a.	mg/kg 8.0 J	mg/kg 4.3	1
Wet Chemistry					
07333	Chloride by IC (solid)	EPA 300.0 16887-00-6	mg/kg 1,170	mg/kg 271	50
Wet Chemistry					
00111	Moisture	SM20 2540 G n.a.	% 7.8	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	05/03/2011 04:30	Elizabeth J Marin	25.56
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	05/03/2011 04:30	Elizabeth J Marin	25.56
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	04/29/2011 16:01	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	05/04/2011 04:30	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	05/03/2011 09:15	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	05/09/2011 17:23	Ashley M Adams	50
01352	Deionized Water Extraction	EPA 300.0	1	11128621203A	05/08/2011 12:50	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	05/03/2011 17:20	Scott W Freisher	1



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Sample Description: SB2(69-70') Grab Soil
West Dollarhide Drinkard Unit #148

LLI Sample # SW 6271813
LLI Group # 1244470
Account # 11713

Project Name: Dollarhide

Collected: 04/28/2011 14:00 by TL

Conestoga-Rovers & Associates
2135 South Loop 250 West
Midland TX 79703

Submitted: 04/29/2011 09:00

Reported: 05/10/2011 18:51

SB269

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Volatiles					
01638	TPH-GRO soil C6-C10	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 0.2	24.49
GC Volatiles					
08179	Benzene	SW-846 8021B 71-43-2	mg/kg N.D.	mg/kg 0.0022	24.49
08179	Ethylbenzene	100-41-4	N.D.	0.0022	24.49
08179	Toluene	108-88-3	N.D.	0.0022	24.49
08179	Total Xylenes	1330-20-7	N.D.	0.0055	24.49
GC Extractable TPH					
08270	TPH-DRO soil C10-C28	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 4.5	1
Wet Chemistry					
07333	Chloride by IC (solid)	EPA 300.0 16887-00-6	mg/kg 175	mg/kg 28.0	5
Wet Chemistry					
00111	Moisture	SM20 2540 G n.a.	% 10.6	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	05/03/2011 05:06	Elizabeth J Marin	24.49
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	05/03/2011 05:06	Elizabeth J Marin	24.49
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	04/29/2011 16:01	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	05/04/2011 04:51	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	05/03/2011 09:15	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	05/09/2011 13:07	Ashley M Adams	5
01352	Deionized Water Extraction	EPA 300.0	1	11128621203A	05/08/2011 12:50	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	05/03/2011 17:20	Scott W Freisher	1



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Sample Description: SB3(29-30') Grab Soil
West Dollarhide Drinkard Unit #148

LLI Sample # SW 6271814
LLI Group # 1244470
Account # 11713

Project Name: Dollarhide

Collected: 04/28/2011 14:29 by TL

Conestoga-Rovers & Associates
2135 South Loop 250 West
Midland TX 79703

Submitted: 04/29/2011 09:00

Reported: 05/10/2011 18:51

SB329

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Volatiles					
01638	TPH-GRO soil C6-C10	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 0.2	26.6
GC Volatiles					
08179	Benzene	SW-846 8021B 71-43-2	mg/kg N.D.	mg/kg 0.0022	26.6
08179	Ethylbenzene	100-41-4	N.D.	0.0022	26.6
08179	Toluene	108-88-3	N.D.	0.0022	26.6
08179	Total Xylenes	1330-20-7	N.D.	0.0056	26.6
GC Extractable TPH					
08270	TPH-DRO soil C10-C28	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 4.1	1
Wet Chemistry					
07333	Chloride by IC (solid)	EPA 300.0 16887-00-6	mg/kg 220	mg/kg 26.1	5
Wet Chemistry					
00111	Moisture	SM20 2540 G n.a.	% 4.3	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	05/03/2011 05:42	Elizabeth J Marin	26.6
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	05/03/2011 05:42	Elizabeth J Marin	26.6
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	04/29/2011 16:02	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	05/04/2011 05:13	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	05/03/2011 09:15	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	05/09/2011 13:22	Ashley M Adams	5
01352	Deionized Water Extraction	EPA 300.0	1	11128621203A	05/08/2011 12:50	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	05/03/2011 17:20	Scott W Freisher	1



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Sample Description: SB3(39-40') Grab Soil
West Dollarhide Drinkard Unit #148

LLI Sample # SW 6271815
LLI Group # 1244470
Account # 11713

Project Name: Dollarhide

Collected: 04/28/2011 14:49 by TL

Conestoga-Rovers & Associates

Submitted: 04/29/2011 09:00

2135 South Loop 250 West

Reported: 05/10/2011 18:51

Midland TX 79703

SB339

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Volatiles					
01638	TPH-GRO soil C6-C10	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 0.2	23.54
GC Volatiles					
08179	Benzene	SW-846 8021B 71-43-2	mg/kg N.D.	mg/kg 0.0020	23.54
08179	Ethylbenzene	100-41-4	N.D.	0.0020	23.54
08179	Toluene	108-88-3	N.D.	0.0020	23.54
08179	Total Xylenes	1330-20-7	N.D.	0.0050	23.54
GC Extractable TPH					
08270	TPH-DRO soil C10-C28	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 4.2	1
Wet Chemistry					
07333	Chloride by IC (solid)	EPA 300.0 16887-00-6	mg/kg 114	mg/kg 26.4	5
Wet Chemistry					
00111	Moisture	SM20 2540 G n.a.	% 5.4	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	05/03/2011 06:18	Elizabeth J Marin	23.54
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	05/03/2011 06:18	Elizabeth J Marin	23.54
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	04/29/2011 16:03	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	05/04/2011 05:34	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	05/03/2011 09:15	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	05/09/2011 13:36	Ashley M Adams	5
01352	Deionized Water Extraction	EPA 300.0	1	11128621203A	05/08/2011 12:50	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	05/03/2011 17:20	Scott W Freisher	1



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Analysis Report

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Sample Description: SB3(49-50') Grab Soil
West Dollarhide Drinkard Unit #148

LLI Sample # SW 6271816
LLI Group # 1244470
Account # 11713

Project Name: Dollarhide

Collected: 04/28/2011 14:59 by TL

Conestoga-Rovers & Associates
2135 South Loop 250 West
Midland TX 79703

Submitted: 04/29/2011 09:00

Reported: 05/10/2011 18:51

SB349

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Volatiles					
01638	TPH-GRO soil C6-C10	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 0.2	25.3
GC Volatiles					
08179	Benzene	SW-846 8021B 71-43-2	mg/kg N.D.	mg/kg 0.0021	25.3
08179	Ethylbenzene	100-41-4	N.D.	0.0021	25.3
08179	Toluene	108-88-3	N.D.	0.0021	25.3
08179	Total Xylenes	1330-20-7	N.D.	0.0052	25.3
GC Extractable TPH					
08270	TPH-DRO soil C10-C28	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 4.1	1
Wet Chemistry					
07333	Chloride by IC (solid)	EPA 300.0 16887-00-6	mg/kg 40.4 J	mg/kg 25.9	5
Wet Chemistry					
00111	Moisture	SM20 2540 G n.a.	% 3.5	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	05/03/2011 06:55	Elizabeth J Marin	25.3
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	05/03/2011 06:55	Elizabeth J Marin	25.3
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	04/29/2011 16:04	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	05/04/2011 05:56	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	05/03/2011 09:15	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	05/09/2011 13:50	Ashley M Adams	5
01352	Deionized Water Extraction	EPA 300.0	1	11128621203A	05/08/2011 12:50	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	05/03/2011 17:20	Scott W Freisher	1



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Analysis Report

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Sample Description: SX-NSW3' Grab Soil
West Dollarhide Drinkard Unit #148

LLI Sample # SW 6271817
LLI Group # 1244470
Account # 11713

Project Name: Dollarhide

Collected: 04/28/2011 15:05 by TL

Conestoga-Rovers & Associates
2135 South Loop 250 West
Midland TX 79703

Submitted: 04/29/2011 09:00

Reported: 05/10/2011 18:51

SX-NS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Volatiles					
01638	TPH-GRO soil C6-C10	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 0.2	26.15
GC Volatiles					
08179	Benzene	SW-846 8021B 71-43-2	mg/kg N.D.	mg/kg 0.0021	26.15
08179	Ethylbenzene	100-41-4	N.D.	0.0021	26.15
08179	Toluene	108-88-3	N.D.	0.0021	26.15
08179	Total Xylenes	1330-20-7	N.D.	0.0053	26.15
GC Extractable TPH					
08270	TPH-DRO soil C10-C28	SW-846 8015B n.a.	mg/kg 40	mg/kg 4.1	1
Wet Chemistry					
07333	Chloride by IC (solid)	EPA 300.0 16887-00-6	mg/kg 275	mg/kg 25.5	5
Wet Chemistry					
00111	Moisture	SM20 2540 G n.a.	% 1.9	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	05/03/2011 13:10	Elizabeth J Marin	26.15
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	05/03/2011 13:10	Elizabeth J Marin	26.15
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	04/29/2011 16:04	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	05/04/2011 08:45	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	05/03/2011 09:15	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	05/09/2011 14:04	Ashley M Adams	5
01352	Deionized Water Extraction	EPA 300.0	1	11128621203A	05/08/2011 12:50	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	05/03/2011 17:20	Scott W Freisher	1



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Analysis Report

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Sample Description: SX-WSW3' Grab Soil
West Dollarhide Drinkard Unit #148

LLI Sample # SW 6271818
LLI Group # 1244470
Account # 11713

Project Name: Dollarhide

Collected: 04/28/2011 15:15 by TL

Conestoga-Rovers & Associates

Submitted: 04/29/2011 09:00

2135 South Loop 250 West

Reported: 05/10/2011 18:51

Midland TX 79703

SX-WS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Volatiles					
01638	TPH-GRO soil C6-C10	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 0.2	23.65
GC Volatiles					
08179	Benzene	SW-846 8021B 71-43-2	mg/kg N.D.	mg/kg 0.0019	23.65
08179	Ethylbenzene	100-41-4	N.D.	0.0019	23.65
08179	Toluene	108-88-3	N.D.	0.0019	23.65
08179	Total Xylenes	1330-20-7	N.D.	0.0048	23.65
GC Extractable TPH					
08270	TPH-DRO soil C10-C28	SW-846 8015B n.a.	mg/kg 10 J	mg/kg 4.1	1
Wet Chemistry					
07333	Chloride by IC (solid)	EPA 300.0 16887-00-6	mg/kg 282	mg/kg 25.5	5
Wet Chemistry					
00111	Moisture	SM20 2540 G n.a.	% 1.8	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	05/03/2011 13:47	Elizabeth J Marin	23.65
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	05/03/2011 13:47	Elizabeth J Marin	23.65
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	04/29/2011 16:05	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	05/04/2011 07:22	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	05/03/2011 09:15	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203B	05/09/2011 14:18	Ashley M Adams	5
01352	Deionized Water Extraction	EPA 300.0	1	11128621203B	05/08/2011 12:50	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	05/03/2011 17:20	Scott W Freisher	1



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Sample Description: SX-SSW3' Grab Soil
West Dollarhide Drinkard Unit #148

LLI Sample # SW 6271819
LLI Group # 1244470
Account # 11713

Project Name: Dollarhide

Collected: 04/28/2011 15:10 by TL

Conestoga-Rovers & Associates
2135 South Loop 250 West
Midland TX 79703

Submitted: 04/29/2011 09:00

Reported: 05/10/2011 18:51

SX-SS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Volatiles					
01638	TPH-GRO soil C6-C10	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 0.2	24.41
GC Volatiles					
08179	Benzene	SW-846 8021B 71-43-2	mg/kg N.D.	mg/kg 0.0020	24.41
08179	Ethylbenzene	100-41-4	N.D.	0.0020	24.41
08179	Toluene	108-88-3	N.D.	0.0020	24.41
08179	Total Xylenes	1330-20-7	N.D.	0.0049	24.41
GC Extractable TPH					
08270	TPH-DRO soil C10-C28	SW-846 8015B n.a.	mg/kg 12 J	mg/kg 4.1	1
Wet Chemistry					
07333	Chloride by IC (solid)	EPA 300.0 16887-00-6	mg/kg 274	mg/kg 25.3	5
Wet Chemistry					
00111	Moisture	SM20 2540 G n.a.	% 1.3	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	05/03/2011 07:31	Elizabeth J Marin	24.41
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	05/03/2011 07:31	Elizabeth J Marin	24.41
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	04/29/2011 16:06	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	05/04/2011 07:43	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	05/03/2011 09:15	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203B	05/09/2011 15:01	Ashley M Adams	5
01352	Deionized Water Extraction	EPA 300.0	1	11128621203B	05/08/2011 12:50	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	05/03/2011 17:20	Scott W Freisher	1



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Sample Description: SX-ESW3' Grab Soil
West Dollarhide Drinkard Unit #148

LLI Sample # SW 6271820
LLI Group # 1244470
Account # 11713

Project Name: Dollarhide

Collected: 04/28/2011 15:20 by TL

Conestoga-Rovers & Associates
2135 South Loop 250 West
Midland TX 79703

Submitted: 04/29/2011 09:00

Reported: 05/10/2011 18:51

SX-ES

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Volatiles					
01638	TPH-GRO soil C6-C10	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 0.2	24.98
GC Volatiles					
08179	Benzene	SW-846 8021B 71-43-2	mg/kg N.D.	mg/kg 0.0020	24.98
08179	Ethylbenzene	100-41-4	N.D.	0.0020	24.98
08179	Toluene	108-88-3	N.D.	0.0020	24.98
08179	Total Xylenes	1330-20-7	N.D.	0.0051	24.98
GC Extractable TPH					
08270	TPH-DRO soil C10-C28	SW-846 8015B n.a.	mg/kg 21	mg/kg 4.1	1
Wet Chemistry					
07333	Chloride by IC (solid)	EPA 300.0 16887-00-6	mg/kg 1,270	mg/kg 254	50
Wet Chemistry					
00111	Moisture	SM20 2540 G n.a.	% 1.6	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	05/03/2011 14:25	Elizabeth J Marin	24.98
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	05/03/2011 14:25	Elizabeth J Marin	24.98
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	04/29/2011 16:06	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	05/04/2011 08:24	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	05/03/2011 09:15	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203B	05/10/2011 09:57	Ashley M Adams	50
01352	Deionized Water Extraction	EPA 300.0	1	11128621203B	05/08/2011 12:50	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	05/03/2011 17:20	Scott W Freisher	1



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Sample Description: LX-SSW3' Grab Soil
West Dollarhide Drinkard Unit #148

LLI Sample # SW 6271821
LLI Group # 1244470
Account # 11713

Project Name: Dollarhide

Collected: 04/28/2011 14:30 by TL

Conestoga-Rovers & Associates

Submitted: 04/29/2011 09:00

2135 South Loop 250 West

Reported: 05/10/2011 18:51

Midland TX 79703

LX-SS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Volatiles					
01638	TPH-GRO soil C6-C10	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 0.2	26.18
GC Volatiles					
08179	Benzene	SW-846 8021B 71-43-2	mg/kg N.D.	mg/kg 0.0021	26.18
08179	Ethylbenzene	100-41-4	N.D.	0.0021	26.18
08179	Toluene	108-88-3	N.D.	0.0021	26.18
08179	Total Xylenes	1330-20-7	N.D.	0.0053	26.18
GC Extractable TPH					
08270	TPH-DRO soil C10-C28	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 4.0	1
Wet Chemistry					
07333	Chloride by IC (solid)	EPA 300.0 16887-00-6	mg/kg 11,900	mg/kg 2,540	500
Wet Chemistry					
00111	Moisture	SM20 2540 G n.a.	% 1.5	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	05/03/2011 15:10	Elizabeth J Marin	26.18
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	05/03/2011 15:10	Elizabeth J Marin	26.18
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	04/29/2011 16:07	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	05/04/2011 06:17	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	05/03/2011 09:15	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203B	05/10/2011 10:11	Ashley M Adams	500
01352	Deionized Water Extraction	EPA 300.0	1	11128621203B	05/08/2011 12:50	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	05/03/2011 17:20	Scott W Freisher	1



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Sample Description: LX-ESW3' Grab Soil
West Dollarhide Drinkard Unit #148

LLI Sample # SW 6271822
LLI Group # 1244470
Account # 11713

Project Name: Dollarhide

Collected: 04/28/2011 14:35 by TL

Conestoga-Rovers & Associates

Submitted: 04/29/2011 09:00

2135 South Loop 250 West

Reported: 05/10/2011 18:51

Midland TX 79703

LX-ES

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Volatiles					
01638	TPH-GRO soil C6-C10	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 0.2	25.51
GC Volatiles					
08179	Benzene	SW-846 8021B 71-43-2	mg/kg N.D.	mg/kg 0.0021	25.51
08179	Ethylbenzene	100-41-4	N.D.	0.0021	25.51
08179	Toluene	108-88-3	N.D.	0.0021	25.51
08179	Total Xylenes	1330-20-7	N.D.	0.0052	25.51
GC Extractable TPH					
08270	TPH-DRO soil C10-C28	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 4.1	1
Wet Chemistry					
07333	Chloride by IC (solid)	EPA 300.0 16887-00-6	mg/kg 362	mg/kg 51.0	10
Wet Chemistry					
00111	Moisture	SM20 2540 G n.a.	% 2.0	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	05/03/2011 09:56	Elizabeth J Marin	25.51
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	05/03/2011 09:56	Elizabeth J Marin	25.51
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	04/29/2011 16:08	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	05/04/2011 06:39	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	05/03/2011 09:15	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203B	05/10/2011 10:25	Ashley M Adams	10
01352	Deionized Water Extraction	EPA 300.0	1	11128621203B	05/08/2011 12:50	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	05/03/2011 17:20	Scott W Preisher	1



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Sample Description: LX-SWSW3' Grab Soil
West Dollarhide Drinkard Unit #148

LLI Sample # SW 6271823
LLI Group # 1244470
Account # 11713

Project Name: Dollarhide

Collected: 04/28/2011 14:40 by TL

Conestoga-Rovers & Associates

Submitted: 04/29/2011 09:00

2135 South Loop 250 West

Reported: 05/10/2011 18:51

Midland TX 79703

LX-SW

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Volatiles					
01638	TPH-GRO soil C6-C10	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 0.2	23.45
GC Volatiles					
08179	Benzene	SW-846 8021B 71-43-2	mg/kg N.D.	mg/kg 0.0019	23.45
08179	Ethylbenzene	100-41-4	N.D.	0.0019	23.45
08179	Toluene	108-88-3	N.D.	0.0019	23.45
08179	Total Xylenes	1330-20-7	N.D.	0.0048	23.45
GC Extractable TPH					
08270	TPH-DRO soil C10-C28	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 4.1	1
Wet Chemistry					
07333	Chloride by IC (solid)	EPA 300.0 16887-00-6	mg/kg 869	mg/kg 102	20
Wet Chemistry					
00111	Moisture	SM20 2540 G n.a.	% 1.6	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	05/03/2011 10:32	Elizabeth J Marin	23.45
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	05/03/2011 10:32	Elizabeth J Marin	23.45
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	04/29/2011 16:09	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	05/04/2011 07:00	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	05/03/2011 09:15	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203B	05/10/2011 10:40	Ashley M Adams	20
01352	Deionized Water Extraction	EPA 300.0	1	11128621203B	05/08/2011 12:50	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	05/03/2011 17:20	Scott W Freisher	1



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Analysis Report

Page 1 of 1

Sample Description: LX-NWSW3' Grab Soil
West Dollarhide Drinkard Unit #148

LLI Sample # SW 6271824
LLI Group # 1244470
Account # 11713

Project Name: Dollarhide

Collected: 04/28/2011 14:45 by TL

Conestoga-Rovers & Associates

Submitted: 04/29/2011 09:00

2135 South Loop 250 West

Reported: 05/10/2011 18:51

Midland TX 79703

LX-NW

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Volatiles					
01638	TPH-GRO soil C6-C10	SW-846 8015B n.a.	mg/kg N.D.	mg/kg 0.2	24.85
GC Volatiles					
08179	Benzene	SW-846 8021B 71-43-2	mg/kg N.D.	mg/kg 0.0020	24.85
08179	Ethylbenzene	100-41-4	N.D.	0.0020	24.85
08179	Toluene	108-88-3	N.D.	0.0020	24.85
08179	Total Xylenes	1330-20-7	N.D.	0.0050	24.85
GC Extractable TPH					
08270	TPH-DRO soil C10-C28	SW-846 8015B n.a.	mg/kg 210	mg/kg 4.0	1
Wet Chemistry					
07333	Chloride by IC (solid)	EPA 300.0 16887-00-6	mg/kg 1,760	mg/kg 254	50
Wet Chemistry					
00111	Moisture	SM20 2540 G n.a.	% 1.4	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	05/03/2011 15:47	Elizabeth J Marin	24.85
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	05/03/2011 15:47	Elizabeth J Marin	24.85
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	04/29/2011 16:10	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	05/04/2011 09:14	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	05/03/2011 09:15	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203B	05/10/2011 10:54	Ashley M Adams	50
01352	Deionized Water Extraction	EPA 300.0	1	11128621203B	05/08/2011 12:50	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	05/03/2011 17:20	Scott W Freisher	1



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Analysis Report

Page 1 of 1

Sample Description: Trip Blank Water
West Dollarhide Drinkard Unit #148

LLI Sample # WW 6271825
LLI Group # 1244470
Account # 11713

Project Name: Dollarhide

Collected: 04/28/2011

Conestoga-Rovers & Associates

Submitted: 04/29/2011 09:00

2135 South Loop 250 West

Reported: 05/10/2011 18:51

Midland TX 79703

LX-TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Volatiles		SW-846 8021B	mg/l	mg/l	
02102	Benzene	71-43-2	N.D.	0.0002	1
02102	Ethylbenzene	100-41-4	N.D.	0.0002	1
02102	Toluene	108-88-3	N.D.	0.0002	1
02102	Total Xylenes	1330-20-7	N.D.	0.0006	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02102	Method 8021 Water Master	SW-846 8021B	1	11124A53A	05/05/2011 17:50	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11124A53A	05/05/2011 17:50	Laura M Krieger	1

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 05/10/11 at 06:51 PM

Group Number: 1244470

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11122A31A	Sample number(s): 6271808-6271824							
Benzene	N.D.	0.0020	mg/kg	99	99	76-118	0	30
Ethylbenzene	N.D.	0.0020	mg/kg	101	101	77-115	0	30
Toluene	N.D.	0.0020	mg/kg	100	100	80-120	0	30
TPH-GRO soil C6-C10	N.D.	0.2	mg/kg	80	83	67-119	3	30
Total Xylenes	N.D.	0.0050	mg/kg	103	103	78-115	0	30
Batch number: 11124A53A	Sample number(s): 6271825							
Benzene	N.D.	0.0002	mg/l	80	80	80-120	0	30
Ethylbenzene	N.D.	0.0002	mg/l	85	80	80-120	6	30
Toluene	N.D.	0.0002	mg/l	85	80	80-120	6	30
Total Xylenes	N.D.	0.0006	mg/l	85	85	80-120	0	30
Batch number: 111220021A	Sample number(s): 6271808-6271824							
TPH-DRO soil C10-C28	N.D.	4.0	mg/kg	81		76-117		
Batch number: 11128621203A	Sample number(s): 6271808-6271817							
Chloride by IC (solid)	N.D.	5.0	mg/kg	103		90-110		
Batch number: 11128621203B	Sample number(s): 6271818-6271824							
Chloride by IC (solid)	N.D.	5.0	mg/kg	103		90-110		
Batch number: 11123820003B	Sample number(s): 6271808-6271824							
Moisture				100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 111220021A	Sample number(s): 6271808-6271824 UNSPK: 6271808 BKG: 6271808								
TPH-DRO soil C10-C28	77		30-159			4.1	J N.D.	200* (1)	20
Batch number: 11128621203A	Sample number(s): 6271808-6271817 UNSPK: 6271808 BKG: 6271808								
Chloride by IC (solid)	186*		90-110			58.7	74.8	24* (1)	20
Batch number: 11128621203B	Sample number(s): 6271818-6271824 UNSPK: 6271818 BKG: 6271818								
Chloride by IC (solid)	67 (2)		90-110			277	238	15 (1)	20
Batch number: 11123820003B	Sample number(s): 6271808-6271824 BKG: 6271811								
Moisture						6.2	6.4	3	15

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates
Reported: 05/10/11 at 06:51 PM

Group Number: 1244470

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
---------------	------------	-------------	------------------	-----	------------	-------------	-------------	------------	----------------

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-GRO soil C6-C10

Batch number: 11122A31A

Trifluorotoluene-F Trifluorotoluene-P

6271808	83	84
6271809	89	90
6271810	93	96
6271811	88	87
6271812	94	95
6271813	92	94
6271814	98	97
6271815	91	93
6271816	95	97
6271817	101	99
6271818	105	101
6271819	99	101
6271820	97	94
6271821	104	100
6271822	98	98
6271823	95	98
6271824	101	102
Blank	102	103
LCS	98	95
LCSD	102	94

Limits: 61-122 73-117

Analysis Name: Method 8021 Water Master

Batch number: 11124A53A

Trifluorotoluene-P Trifluorotoluene-F

6271825	77	
Blank	77	70
LCS	67	88
LCSD	66	89

Limits: 58-146 63-135

Analysis Name: TPH-DRO soil C10-C28

Batch number: 111220021A

Orthoterphenyl

6271808	91
6271809	84

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Conestoga-Rovers & Associates

Group Number: 1244470

Reported: 05/10/11 at 06:51 PM

Surrogate Quality Control

6271810	93
6271811	89
6271812	91
6271813	89
6271814	91
6271815	90
6271816	90
6271817	94
6271818	90
6271819	93
6271820	92
6271821	91
6271822	90
6271823	88
6271824	97
Blank	87
DUP	90
LCS	98
MS	98

Limits: 59-129

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Lancaster
Laboratories

Accl. # 11713

Group#	Sample #
1244470	6271808-25

COC # 258611

Please print. Instructions on reverse side correspond with circled numbers.

Issued by Dept. 6042 Management
2102.05

Lancaster Laboratories, Inc., 2425 New Holland Pike, Lancaster, PA 17601 (717) 656-2300 Fax: (717) 656-6766
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

Lancaster
Laboratories

Acct. # 11713

Group# 1244470 Sample # 6271808-25

COC # 258612

Please print. Instructions on reverse side correspond with circled numbers.

1 Client: _____ Acct. #: _____				Project Name/#: _____ PWSID #: _____				Project Manager: _____ P.O.#: _____				Sampler: _____ Quote #: _____			
Name of state where samples were collected: _____												Matrix ☐ Potable ☐ NPDES Applicable 4 Total # of Containers ☐ Soil ☐ Water ☐ Other 5 Analyses Requested Preservation Codes			
Sample Identification				Date Collected		Time Collected		3		Grab					
SX - NSW 3'				4.28.11		1505		X		X		X			
SX - NSW 3'						1515									
SX - NSW 3'						1510									
SX - NSW 3'						1520									
LX - NSW 3'						1430									
LX - NSW 3'						1435									
LX - NSW 3'						1440									
LX - NSW 3'						1445									
Tung Blank															
Tung Blank															

7 Turnaround Time Requested (TAT) (please circle): Normal <u>Rush</u>				Date results are needed: _____				Rush results requested by (please circle): _____				Phone #: _____ Fax #: _____			
E-mail address: _____				Date results requested by (please circle): _____				Date results requested by (please circle): _____				Date results requested by (please circle): _____			
E-mail address: _____				Date results requested by (please circle): _____				Date results requested by (please circle): _____				Date results requested by (please circle): _____			
E-mail address: _____				Date results requested by (please circle): _____				Date results requested by (please circle): _____				Date results requested by (please circle): _____			
E-mail address: _____				Date results requested by (please circle): _____				Date results requested by (please circle): _____				Date results requested by (please circle): _____			

8 Data Package Options (please circle if required)				SDG Complete?			
Type I (validation/NJ Reg)				TX TRRP-13			
Type II (Tier II)				MA MCP			
Type III (Reduced NJ)				CT RCP			
Type IV (CLP SOW)				Site-specific QC (MS/MSD/Dup)? Yes No			
Type VI (Raw Data Only)				Internal COC Required? Yes / No			
Type I (validation/NJ Reg)				TX TRRP-13			
Type II (Tier II)				MA MCP			
Type III (Reduced NJ)				CT RCP			
Type IV (CLP SOW)				Site-specific QC (MS/MSD/Dup)? Yes No			
Type VI (Raw Data Only)				Internal COC Required? Yes / No			

Lancaster Laboratories, Inc., 2425 New Holland Pike, Lancaster, PA 17801 (717) 656-2300 Fax: (717) 656-6766
Copies: 'White and yellow should' accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

Issued by Dept. 6042 Management
2102.05

Project Summary:

Project Name: Produced Water Line Release
CRA Project No./Phase/task: 073041
Project Location: Lea County, New Mexico
Client Name: Chevron Environmental Management Company
QAPP Title:

Database Summary:

Database Maintained: ☐ Yes ☒ No

Database Contact: _____

Database Facility Code: _____

Note: Is there more than one laboratory for this event? (SSOW of) ☐ Yes ☒ No

Event Summary:

Phase/Study Title: West Dolarthide Drinkard Unit #148
Event Description: Soil Assessment & Remediation
Start Date: 4/11/2011
Sampling Duration: 5 days
Sampling Frequency: one-time

Rush TAT: 5 days ☐ NA
 Final Report & EDD TAT: 5 days Sample Batching: sample event
 Date Bottles Required: 4/8/2011
 Bottle Shipping Address CRA/ 2135 S. Loop 250 West
 Midland, Texas
 Phone Number: 432-696-0086 Attention: Tom Larson

Contacts:

Client Project Manager:	Matt Hudson	713-372-9207	mthudson@chevron.com
Consulting Firm:	CRA		
Project Manager:	Tom Lamon	432-886-0086	tlamon@crawworld.com
Field Leader:			
Laboratory (Vendor):	Lancaster Laboratories		
Lab Project Manager:	Wendy Kozma		wkozma@lancasterlabs.com
Chemistry/Data Mgt. Firm:	CRA	717-856-2300	
Chemist:	Lynch, Patricia		
Data Manager:	Lidstone, Julie	713-734-3090	plyndch@crawworld.com
		519-884-0510	lidstone@crawworld.com

Lab Deliverables

DD Format

Hardcopy Level Requested

PRA Data Review Level

Lab Deliverables Distribution

Rush TAT Data (email deliverable only) :

Final EDO & Result Summary (PDF) :

Final Lab Report ☒ PDF ☐ CD ☐ Hard Copy

☐ CRA EQUIS EDED
☒ CRA Standard
☐ Compliance
☐ Full Validation

Additional Reporting Requirements

Form 1's include: ☐ MDLs ☒ PQLs ☒ J values

TTICs: ☐ Yes ☒ No

Soil Reporting: ☐ Wet ☒ Dry

Database Exports - ☐ No

Reporting down to MDL

Data Management Deliverables

Data Management Deliverables Distribution		Distribution List:	NA

Data Management Deliverables Distribution

Data Management DV TAT: _____

Comments

**** additional Final Lab Report copy (in *.pdf format) is available on CRA's MyPortal Site in the Project File folder or on Program specific SharePoint site; please contact project Chemist

SSOW Email Distribution List: mhudson@chevron.com; tlarrison@craworld.com; wkozma@lancasterlabs.com; plynych@craworld.com; lldstone@craworld.com

Prepared By:	Patricia L. Lynch	Date:	4/5/2011	Revision No.:	0	Revision Date:
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CRA Simplified Scope of Work (SSOW)/Laboratory Services Purchase Order

SSOW Ref. Code

Project Name: Produced Water Line Release

Phase/Study Title: West Dollarhide Drinkard Unit #148

CRA Project No./Phase/Task: 073041

Event Description: Soil Assessment & Remediation

Project Location: Lea County, New Mexico

Item	Sample Matrix	Analytical Parameters	Analytical Methods	Holding Time	Unit Prices	Applicable Surcharges Multiplier ⁽¹⁾	Field QC Samples					Total Sample Qty.	Billable Samples	Estimated Cost/Event
							MSD	Lab Dup	Trip Blk	Rbk	Field Dup			
1	Soil	BTEX	SW8021	14 days	\$ 17.69	1.35			3			31	31	\$740.33
2	Soil	TPH GRO	SW8015	14 days	\$ 1.75	1.35						28	28	\$66.15
3	Soil	TPH DRO	SW8015	14 days	\$ 37.56	1.35						28	28	\$1,419.77
4	Soil	Chloride	EPA300	28 days	\$ 24.82	1.35						28	28	\$638.20
5	Soil	Moisture	EPA 160.3	7 days	\$ 4.55	1.35						28	28	\$171.99

⁽¹⁾ Explanation of Surcharges:

Estimated Event Subtotal: \$2,471.43
 Laboratory Surcharge(s): \$665.00
 Estimated Event Total Costs: \$3,336.43

Lab Contracting Summary:

Governing Terms and Conditions

- ☐ Master Agreement Number: _____
☐ Exhibit "A" Terms and Conditions
☐ Client Contract

CRA Purchase Order Number: 4038151

Name of Client: Chevron Environmental Management Company

Other Additional Insureds:

Governing Law: New Mexico

Currency: US

Address Invoice to: CRA/Pat Lynch

6320 Rothway, Suite 100
Houston, Texas 77040Patricia L. Lynch
(authorized CRA signature)4/5/2011
(date signed)Wendy Kozma
(authorized Vendor signature)4/6/2011
(date signed)

Typed name constitutes authorized signature.

Vendor to provide and deliver all items or services set out or otherwise described below subject to the governing terms and conditions checked above. This Purchase Order expressly limits acceptance to such terms and conditions. Any additional or different terms proposed by Vendor are rejected unless expressly agreed to in writing by CRA. To accept this Purchase Order, Vendor must sign, date, and return one copy of this page to issuer before starting any work. CRA's receipt of Signature of this Purchase Order may be sent by facsimile (with confirmation by transmitting machine) and/or transmitted by portable document file (PDF) which shall be treated as an original signature, and any such signatures, facsimile, PDF file, or copy of this signed Purchase Order shall be valid as an original and shall be binding as if it were the original. Show Purchase Order No. on all correspondence, invoices, and delivery papers.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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HOBBS OCD

MAY 31 2011

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Page 1 of 17

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Conestoga-Rovers & Associates
2135 South Loop 250 West
Midland TX 79703

May 10, 2011

Project: Dollarhide

Submittal Date: 04/29/2011

Group Number: 1244470

PO Number: 4038151

Release Number: DOLLARHIDE

State of Sample Origin: NM

<u>Client Sample Description</u>	<u>Lancaster Labs #</u>	<u>Collected</u>
SB1(29-30') Grab Soil	6271808	04/28/2011 11:45
West Dollarhide Drinkard Unit #148		
SB1(49-50') Grab Soil	6271809	04/28/2011 12:30
West Dollarhide Drinkard Unit #148		
SB1(69-70') Grab Soil	6271810	04/28/2011 13:00
West Dollarhide Drinkard Unit #148		
SB2(29-30') Grab Soil	6271811	04/28/2011 13:20
West Dollarhide Drinkard Unit #148		
SB2(49-50') Grab Soil	6271812	04/28/2011 13:35
West Dollarhide Drinkard Unit #148		
SB2(69-70') Grab Soil	6271813	04/28/2011 14:00
West Dollarhide Drinkard Unit #148		
SB3(29-30') Grab Soil	6271814	04/28/2011 14:29
West Dollarhide Drinkard Unit #148		
SB3(39-40') Grab Soil	6271815	04/28/2011 14:49
West Dollarhide Drinkard Unit #148		
SB3(49-50') Grab Soil	6271816	04/28/2011 14:59
West Dollarhide Drinkard Unit #148		
SX-NSW3' Grab Soil	6271817	04/28/2011 15:05
West Dollarhide Drinkard Unit #148		
SX-WSW3' Grab Soil	6271818	04/28/2011 15:15
West Dollarhide Drinkard Unit #148		
SX-SSW3' Grab Soil	6271819	04/28/2011 15:10
West Dollarhide Drinkard Unit #148		
SX-ESW3' Grab Soil	6271820	04/28/2011 15:20
West Dollarhide Drinkard Unit #148		
LX-SSW3' Grab Soil	6271821	04/28/2011 14:30
West Dollarhide Drinkard Unit #148		
LX-ESW3' Grab Soil	6271822	04/28/2011 14:35
West Dollarhide Drinkard Unit #148		

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Conestoga-Rovers & Associates
2135 South Loop 250 West
Midland TX 79703

May 10, 2011

LX-SWSW3' Grab Soil	6271823	04/28/2011 14:40
West Dollarhide Drinkard Unit #148		
LX-NWSW3' Grab Soil	6271824	04/28/2011 14:45
West Dollarhide Drinkard Unit #148		
Trip Blank Water	6271825	04/28/2011
West Dollarhide Drinkard Unit #148		

METHODOLOGY

The specified methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

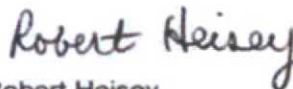
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Conestoga-Rovers & Associates
LLI

Attn: Tom Larson
Attn: EDD Group - Report

Questions? Contact your Client Services Representative
Wendy A Kozma at (717) 656-2300 Ext. 1522

Respectfully Submitted,



Robert Heisey
Senior Specialist

Conestoga-Rovers & Associates
Project: Dollarhide
SDG:

Report Date: 5/10/2011 18:51
Submit Date: 4/29/2011 9:00

Analysis Name	Units	6271808	Dry MDL	6271809	Dry MDL	6271810	Dry MDL
		SB1(29-30')		SB1(49-50')		SB1(69-70')	
		Dry Result		Dry Result		Dry Result	
TPH-GRO soil C6-C10	mg/kg	N.D.	0.2	N.D.	0.2	N.D.	0.2
Benzene	mg/kg	N.D.	0.0023	N.D.	0.0023	N.D.	0.0021
Ethylbenzene	mg/kg	N.D.	0.0023	N.D.	0.0023	N.D.	0.0021
Toluene	mg/kg	N.D.	0.0023	N.D.	0.0023	N.D.	0.0021
Total Xylenes	mg/kg	N.D.	0.0058	N.D.	0.0057	N.D.	0.0052
TPH-DRO soil C10-C28	mg/kg	4.8 J	4.7	N.D.	4.5	N.D.	4.3
Chloride by IC (solid)	mg/kg	69.6	5.9	754	114	60.4	27.1
Moisture	%	15.6	0.50	12.0	0.50	7.9	0.50

Analysis Name	Units	6271811	Dry MDL	6271812	Dry MDL	6271813	Dry MDL
		SB2(29-30')		SB2(49-50')		SB2(69-70')	
		Dry Result		Dry Result		Dry Result	
TPH-GRO soil C6-C10	mg/kg	N.D.	0.2	N.D.	0.2	N.D.	0.2
Benzene	mg/kg	N.D.	0.0021	N.D.	0.0022	N.D.	0.0022
Ethylbenzene	mg/kg	N.D.	0.0021	N.D.	0.0022	N.D.	0.0022
Toluene	mg/kg	N.D.	0.0021	N.D.	0.0022	N.D.	0.0022
Total Xylenes	mg/kg	N.D.	0.0052	N.D.	0.0055	N.D.	0.0055
TPH-DRO soil C10-C28	mg/kg	N.D.	4.2	8.0 J	4.3	N.D.	4.5
Chloride by IC (solid)	mg/kg	2,670	267	1,170	271	175	28.0
Moisture	%	6.2	0.50	7.8	0.50	10.6	0.50

Analysis Name	Units	6271814	Dry MDL	6271815	Dry MDL	6271816	Dry MDL
		SB3(29-30')		SB3(39-40')		SB3(49-50')	
		Dry Result		Dry Result		Dry Result	
TPH-GRO soil C6-C10	mg/kg	N.D.	0.2	N.D.	0.2	N.D.	0.2
Benzene	mg/kg	N.D.	0.0022	N.D.	0.0020	N.D.	0.0021
Ethylbenzene	mg/kg	N.D.	0.0022	N.D.	0.0020	N.D.	0.0021
Toluene	mg/kg	N.D.	0.0022	N.D.	0.0020	N.D.	0.0021
Total Xylenes	mg/kg	N.D.	0.0056	N.D.	0.0050	N.D.	0.0052
TPH-DRO soil C10-C28	mg/kg	N.D.	4.1	N.D.	4.2	N.D.	4.1
Chloride by IC (solid)	mg/kg	220	26.1	114	26.4	40.4 J	25.9
Moisture	%	4.3	0.50	5.4	0.50	3.5	0.50

Analysis Name	Units	6271817	Dry MDL	6271818	Dry MDL	6271819	Dry MDL
		SX-NSW3'		SX-WSW3'		SX-SSW3'	
		Dry Result		Dry Result		Dry Result	
TPH-GRO soil C6-C10	mg/kg	N.D.	0.2	N.D.	0.2	N.D.	0.2
Benzene	mg/kg	N.D.	0.0021	N.D.	0.0019	N.D.	0.0020
Ethylbenzene	mg/kg	N.D.	0.0021	N.D.	0.0019	N.D.	0.0020
Toluene	mg/kg	N.D.	0.0021	N.D.	0.0019	N.D.	0.0020
Total Xylenes	mg/kg	N.D.	0.0053	N.D.	0.0048	N.D.	0.0049
TPH-DRO soil C10-C28	mg/kg	40	4.1	10 J	4.1	12 J	4.1

Conestoga-Rovers & Associates
Project: Dollarhide
SDG:

Report Date: 5/10/2011 18:51
Submit Date: 4/29/2011 9:00

Chloride by IC (solid)	mg/kg	275	25.5	282	25.5	274	25.3
Moisture	%	1.9	0.50	1.8	0.50	1.3	0.50

Analysis Name	Units	6271820	Dry MDL	6271821	Dry MDL	6271822	Dry MDL
		SX-ESW3'		LX-SSW3'		LX-ESW3'	
		Dry Result		Dry Result		Dry Result	
TPH-GRO soil C6-C10	mg/kg	N.D.	0.2	N.D.	0.2	N.D.	0.2
Benzene	mg/kg	N.D.	0.0020	N.D.	0.0021	N.D.	0.0021
Ethylbenzene	mg/kg	N.D.	0.0020	N.D.	0.0021	N.D.	0.0021
Toluene	mg/kg	N.D.	0.0020	N.D.	0.0021	N.D.	0.0021
Total Xylenes	mg/kg	N.D.	0.0051	N.D.	0.0053	N.D.	0.0052
TPH-DRO soil C10-C28	mg/kg	21	4.1	N.D.	4.0	N.D.	4.1
Chloride by IC (solid)	mg/kg	1,270	254	11,900	2,540	362	51.0
Moisture	%	1.6	0.50	1.5	0.50	2.0	0.50

6271823

6271824

Analysis Name	Units	LX-SWSW3'	Dry MDL	LX-NWSW3'	Dry MDL
		Dry Result		Dry Result	
TPH-GRO soil C6-C10	mg/kg	N.D.	0.2	N.D.	0.2
Benzene	mg/kg	N.D.	0.0019	N.D.	0.0020
Ethylbenzene	mg/kg	N.D.	0.0019	N.D.	0.0020
Toluene	mg/kg	N.D.	0.0019	N.D.	0.0020
Total Xylenes	mg/kg	N.D.	0.0048	N.D.	0.0050
TPH-DRO soil C10-C28	mg/kg	N.D.	4.1	210	4.0
Chloride by IC (solid)	mg/kg	869	102	1,760	254
Moisture	%	1.6	0.50	1.4	0.50

Analysis Name	Units	6271825	MDL
		Trip Blank Result	
Benzene	mg/l	N.D.	0.0002
Ethylbenzene	mg/l	N.D.	0.0002
Toluene	mg/l	N.D.	0.0002
Total Xylenes	mg/l	N.D.	0.0006

CAT No.	Analysis Name	Method	Trial ID	Batch	Analysis Date/Time	Analyst	Dilution
6271808	SB1(29-30") Grab Soil						
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	5/3/11 0205	Elizabeth J Marin	24.27
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	5/3/11 0205	Elizabeth J Marin	24.27
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	4/29/11 1553	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	5/4/11 0221	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	5/3/11 0915	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	5/9/11 1042	Ashley M Adams	1
01352	Deionized Water Extraction	EPA 300.0	1	11128621203A	5/8/11 1250	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	5/3/11 1720	Scott W Freisher	1
6271809	SB1(49-50") Grab Soil						
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	5/3/11 0241	Elizabeth J Marin	25.25
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	5/3/11 0241	Elizabeth J Marin	25.25
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	4/29/11 1554	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	5/4/11 0326	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	5/3/11 0915	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	5/9/11 1655	Ashley M Adams	20
01352	Deionized Water Extraction	EPA 300.0	1	11128621203A	5/8/11 1250	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	5/3/11 1720	Scott W Freisher	1
6271810	SB1(69-70") Grab Soil						
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	5/3/11 0317	Elizabeth J Marin	24.06
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	5/3/11 0317	Elizabeth J Marin	24.06
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	4/29/11 1557	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	5/4/11 0347	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	5/3/11 0915	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	5/9/11 1156	Ashley M Adams	5
01352	Deionized Water Extraction	EPA 300.0	1	11128621203A	5/8/11 1250	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	5/3/11 1720	Scott W Freisher	1
6271811	SB2(29-30") Grab Soil						
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	5/3/11 0353	Elizabeth J Marin	24.25
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	5/3/11 0353	Elizabeth J Marin	24.25
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	4/29/11 1558	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	5/4/11 0408	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	5/3/11 0915	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	5/9/11 1709	Ashley M Adams	50
01352	Deionized Water Extraction	EPA 300.0	1	11128621203A	5/8/11 1250	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	5/3/11 1720	Scott W Freisher	1
6271812	SB2(49-50") Grab Soil						
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	5/3/11 0430	Elizabeth J Marin	25.56
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	5/3/11 0430	Elizabeth J Marin	25.56

CAT No.	Analysis Name	Method	Trial ID	Batch	Analysis Date/Time	Analyst	Dilution
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	4/29/11 1601	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	5/4/11 0430	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	5/3/11 0915	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	5/9/11 1723	Ashley M Adams	50
01352	Deionized Water Extraction	EPA 300.0	1	11128621203A	5/8/11 1250	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	5/3/11 1720	Scott W Freisher	1
6271813 SB2(69-70') Grab Soil							
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	5/3/11 0506	Elizabeth J Marin	24.49
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	5/3/11 0506	Elizabeth J Marin	24.49
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	4/29/11 1601	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	5/4/11 0451	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	5/3/11 0915	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	5/9/11 1307	Ashley M Adams	5
01352	Deionized Water Extraction	EPA 300.0	1	11128621203A	5/8/11 1250	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	5/3/11 1720	Scott W Freisher	1
6271814 SB3(29-30') Grab Soil							
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	5/3/11 0542	Elizabeth J Marin	26.6
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	5/3/11 0542	Elizabeth J Marin	26.6
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	4/29/11 1602	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	5/4/11 0513	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	5/3/11 0915	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	5/9/11 1322	Ashley M Adams	5
01352	Deionized Water Extraction	EPA 300.0	1	11128621203A	5/8/11 1250	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	5/3/11 1720	Scott W Freisher	1
6271815 SB3(39-40') Grab Soil							
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	5/3/11 0618	Elizabeth J Marin	23.54
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	5/3/11 0618	Elizabeth J Marin	23.54
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	4/29/11 1603	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	5/4/11 0534	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	5/3/11 0915	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	5/9/11 1336	Ashley M Adams	5
01352	Deionized Water Extraction	EPA 300.0	1	11128621203A	5/8/11 1250	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	5/3/11 1720	Scott W Freisher	1
6271816 SB3(49-50') Grab Soil							
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	5/3/11 0655	Elizabeth J Marin	25.3
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	5/3/11 0655	Elizabeth J Marin	25.3
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	4/29/11 1604	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	5/4/11 0556	Melissa McDermott	1

CAT No.	Analysis Name	Method	Trial ID	Batch	Analysis Date/Time	Analyst	Dilution
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	5/3/11 0915	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	5/9/11 1350	Ashley M Adams	5
01352	Deionized Water Extraction	EPA 300.0	1	11128621203A	5/8/11 1250	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	5/3/11 1720	Scott W Freisher	1
6271817 SX-NSW3' Grab Soil							
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	5/3/11 1310	Elizabeth J Marin	26.15
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	5/3/11 1310	Elizabeth J Marin	26.15
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	4/29/11 1604	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	5/4/11 0845	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	5/3/11 0915	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203A	5/9/11 1404	Ashley M Adams	5
01352	Deionized Water Extraction	EPA 300.0	1	11128621203A	5/8/11 1250	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	5/3/11 1720	Scott W Freisher	1
6271818 SX-WSW3' Grab Soil							
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	5/3/11 1347	Elizabeth J Marin	23.65
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	5/3/11 1347	Elizabeth J Marin	23.65
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	4/29/11 1605	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	5/4/11 0722	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	5/3/11 0915	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203B	5/9/11 1418	Ashley M Adams	5
01352	Deionized Water Extraction	EPA 300.0	1	11128621203B	5/8/11 1250	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	5/3/11 1720	Scott W Freisher	1
6271819 SX-SSW3' Grab Soil							
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	5/3/11 0731	Elizabeth J Marin	24.41
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	5/3/11 0731	Elizabeth J Marin	24.41
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	4/29/11 1606	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	5/4/11 0743	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	5/3/11 0915	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203B	5/9/11 1501	Ashley M Adams	5
01352	Deionized Water Extraction	EPA 300.0	1	11128621203B	5/8/11 1250	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	5/3/11 1720	Scott W Freisher	1
6271820 SX-ESW3' Grab Soil							
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	5/3/11 1425	Elizabeth J Marin	24.98
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	5/3/11 1425	Elizabeth J Marin	24.98
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	4/29/11 1606	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	5/4/11 0824	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	5/3/11 0915	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203B	5/10/11 0957	Ashley M Adams	50
01352	Deionized Water Extraction	EPA 300.0	1	11128621203B	5/8/11 1250	William L Hamaker Jr	1

CAT No.	Analysis Name	Method	Trial ID	Batch	Analysis Date/Time	Analyst	Dilution
00111	Moisture	SM20 2540 G	1	11123820003B	5/3/11 1720	Scott W Freisher	1
6271821	LX-SSW3' Grab Soil						
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	5/3/11 1510	Elizabeth J Marin	26.18
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	5/3/11 1510	Elizabeth J Marin	26.18
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	4/29/11 1607	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	5/4/11 0617	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	5/3/11 0915	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203B	5/10/11 1011	Ashley M Adams	500
01352	Deionized Water Extraction	EPA 300.0	1	11128621203B	5/8/11 1250	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	5/3/11 1720	Scott W Freisher	1
6271822	LX-ESW3' Grab Soil						
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	5/3/11 0956	Elizabeth J Marin	25.51
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	5/3/11 0956	Elizabeth J Marin	25.51
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	4/29/11 1608	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	5/4/11 0639	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	5/3/11 0915	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203B	5/10/11 1025	Ashley M Adams	10
01352	Deionized Water Extraction	EPA 300.0	1	11128621203B	5/8/11 1250	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	5/3/11 1720	Scott W Freisher	1
6271823	LX-SWSW3' Grab Soil						
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	5/3/11 1032	Elizabeth J Marin	23.45
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	5/3/11 1032	Elizabeth J Marin	23.45
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	4/29/11 1609	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	5/4/11 0700	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	5/3/11 0915	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203B	5/10/11 1040	Ashley M Adams	20
01352	Deionized Water Extraction	EPA 300.0	1	11128621203B	5/8/11 1250	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	5/3/11 1720	Scott W Freisher	1
6271824	LX-NWSW3' Grab Soil						
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	11122A31A	5/3/11 1547	Elizabeth J Marin	24.85
08179	BTEX by 8021	SW-846 8021B	1	11122A31A	5/3/11 1547	Elizabeth J Marin	24.85
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201111924270	4/29/11 1610	Christopher D Meeks	n.a.
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	111220021A	5/4/11 0914	Melissa McDermott	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	111220021A	5/3/11 0915	Kelli M Barto	1
07333	Chloride by IC (solid)	EPA 300.0	1	11128621203B	5/10/11 1054	Ashley M Adams	50
01352	Deionized Water Extraction	EPA 300.0	1	11128621203B	5/8/11 1250	William L Hamaker Jr	1
00111	Moisture	SM20 2540 G	1	11123820003B	5/3/11 1720	Scott W Freisher	1
6271825	Trip Blank Water						
02102	Method 8021 Water Master	SW-846 8021B	1	11124A53A	5/5/11 1750	Laura M Krieger	1

CAT No.	Analysis Name	Method	Trial ID	Batch	Analysis Date/Time	Analyst	Dilution
01146	GC VOA Water Prep	SW-846 5030B	1	11124A53A	5/5/11 1750	Laura M Krieger	1

Client Name: Conestoga-Rovers & Associates

Group Number: 1244470

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	Max RPD
Batch number: 11122A31A		Sample number(s): 6271808-6271824						
Benzene	N.D.	0.0020	mg/kg	99	99	76-118	0	30
Ethylbenzene	N.D.	0.0020	mg/kg	101	101	77-115	0	30
Toluene	N.D.	0.0020	mg/kg	100	100	80-120	0	30
TPH-GRO soil C6-C10	N.D.	0.2	mg/kg	80	83	67-119	3	30
Total Xylenes	N.D.	0.0050	mg/kg	103	103	78-115	0	30
Batch number: 11124A53A		Sample number(s): 6271825						
Benzene	N.D.	0.0002	mg/l	80	80	80-120	0	30
Ethylbenzene	N.D.	0.0002	mg/l	85	80	80-120	6	30
Toluene	N.D.	0.0002	mg/l	85	80	80-120	6	30
Total Xylenes	N.D.	0.0006	mg/l	85	85	80-120	0	30
Batch number: 111220021A		Sample number(s): 6271808-6271824						
TPH-DRO soil C10-C28	N.D.	4.0	mg/kg	81		76-117		
Batch number: 11128621203A		Sample number(s): 6271808-6271817						
Chloride by IC (solid)	N.D.	5.0	mg/kg	103		90-110		
Batch number: 11128621203B		Sample number(s): 6271818-6271824						
Chloride by IC (solid)	N.D.	5.0	mg/kg	103		90-110		
Batch number: 11123820003B		Sample number(s): 6271808-6271824						
Moisture				100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

* - Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
Batch number: 111220021A	Sample number(s): 6271808-6271824 UNSPK: 6271808 BKG: 6271808								
TPH-DRO soil C10-C28	77		30-159			4.1 J	N.D.	200* (1)	20
Batch number: 11128621203A	Sample number(s): 6271808-6271817 UNSPK: 6271808 BKG: 6271808								
Chloride by IC (solid)	186*		90-110			58.7	74.8	24* (1)	20
Batch number: 11128621203B	Sample number(s): 6271818-6271824 UNSPK: 6271818 BKG: 6271818								
Chloride by IC (solid)	67 (2)		90-110			277	238	15 (1)	20
Batch number: 11123820003B	Sample number(s): 6271808-6271824 BKG: 6271811								
Moisture						6.2	6.4	3	15

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-GRO soil C6-C10

Batch number: 11122A31A

	Trifluorotoluene-F	Trifluorotoluene-P
6271808	83	84
6271809	89	90
6271810	93	96
6271811	88	87
6271812	94	95
6271813	92	94
6271814	98	97
6271815	91	93
6271816	95	97
6271817	101	99
6271818	105	101
6271819	99	101
6271820	97	94
6271821	104	100

* - Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

6271822	98	98
6271823	95	98
6271824	101	102
Blank	102	103
LCS	98	95
LCSD	102	94
Limits:	61-122	73-117

Analysis Name: Method 8021 Water Master

Batch number: 11124A53A

	Trifluorotoluene-P	Trifluorotoluene-F
6271825	77	
Blank	77	70
LCS	67	88
LCSD	66	89
Limits:	58-146	63-135

Analysis Name: TPH-DRO soil C10-C28

Batch number: 111220021A

	Orthoterphenyl
6271808	91
6271809	84
6271810	93
6271811	89
6271812	91
6271813	89
6271814	91
6271815	90
6271816	90
6271817	94
6271818	90
6271819	93
6271820	92
6271821	91
6271822	90
6271823	88
6271824	97
Blank	87
DUP	90

* - Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

LCS	98
MS	98
Limits:	59-129

* - Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

QC Comment

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

6271808 SB1(29-30') Grab Soil

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

6271809 SB1(49-50') Grab Soil

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

6271810 SB1(69-70') Grab Soil

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

6271811 SB2(29-30') Grab Soil

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

6271812 SB2(49-50') Grab Soil

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

6271813 SB2(69-70') Grab Soil

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

6271814 SB3(29-30') Grab Soil

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

6271815 SB3(39-40') Grab Soil

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

6271816 SB3(49-50') Grab Soil

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

6271817 SX-NSW3' Grab Soil

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

6271818 SX-WSW3' Grab Soil

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

6271819 SX-SSW3' Grab Soil

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

6271820 SX-ESW3' Grab Soil

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

6271821 LX-SSW3' Grab Soil

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

6271822 LX-ESW3' Grab Soil

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

6271823 LX-SWSW3' Grab Soil

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

6271824 LX-NWSW3' Grab Soil

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

6271825 Trip Blank Water

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value - The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Conestoga-Rovers & Associates
2135 South Loop 250 West
Midland TX 79703

May 10, 2011

Project: Dollarhide

Submittal Date: 04/29/2011

Group Number: 1244470

PO Number: 4038151

Release Number: DOLLARHIDE

State of Sample Origin: NM

Client Sample Description

Lancaster Labs #

Collected

SB1(29-30') Grab Soil West Dollarhide Drinkard Unit #148	6271808	04/28/2011 11:45
SB1(49-50') Grab Soil West Dollarhide Drinkard Unit #148	6271809	04/28/2011 12:30
SB1(69-70') Grab Soil West Dollarhide Drinkard Unit #148	6271810	04/28/2011 13:00
SB2(29-30') Grab Soil West Dollarhide Drinkard Unit #148	6271811	04/28/2011 13:20
SB2(49-50') Grab Soil West Dollarhide Drinkard Unit #148	6271812	04/28/2011 13:35
SB2(69-70') Grab Soil West Dollarhide Drinkard Unit #148	6271813	04/28/2011 14:00
SB3(29-30') Grab Soil West Dollarhide Drinkard Unit #148	6271814	04/28/2011 14:29
SB3(39-40') Grab Soil West Dollarhide Drinkard Unit #148	6271815	04/28/2011 14:49
SB3(49-50') Grab Soil West Dollarhide Drinkard Unit #148	6271816	04/28/2011 14:59
SX-NSW3' Grab Soil West Dollarhide Drinkard Unit #148	6271817	04/28/2011 15:05
SX-WSW3' Grab Soil West Dollarhide Drinkard Unit #148	6271818	04/28/2011 15:15
SX-SSW3' Grab Soil West Dollarhide Drinkard Unit #148	6271819	04/28/2011 15:10
SX-ESW3' Grab Soil West Dollarhide Drinkard Unit #148	6271820	04/28/2011 15:20
LX-SSW3' Grab Soil West Dollarhide Drinkard Unit #148	6271821	04/28/2011 14:30
LX-ESW3' Grab Soil West Dollarhide Drinkard Unit #148	6271822	04/28/2011 14:35

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Conestoga-Rovers & Associates
2135 South Loop 250 West
Midland TX 79703

May 10, 2011

LX-SWSW3' Grab Soil	6271823	04/28/2011 14:40
West Dollarhide Drinkard Unit #148		
LX-NWSW3' Grab Soil	6271824	04/28/2011 14:45
West Dollarhide Drinkard Unit #148		
Trip Blank Water	6271825	04/28/2011
West Dollarhide Drinkard Unit #148		

METHODOLOGY

The specified methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

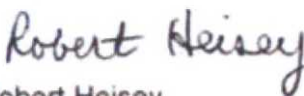
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Conestoga-Rovers & Associates
LLI

Attn: Tom Larson
Attn: EDD Group - Report

Questions? Contact your Client Services Representative
Wendy A Kozma at (717) 656-2300 Ext. 1522

Respectfully Submitted,


Robert Heisey
Senior Specialist