

ANALYTICAL RESULTS

Prepared for:

Chevron
5000 State Route 128
HOOVEN OH 45033

Prepared by:

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

July 30, 2009

SAMPLE GROUP

The sample group for this submittal is 1154769. Samples arrived at the laboratory on Friday, July 24, 2009. The PO# for this group is 0015039270 and the release number is 50008931.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
EB-1,07202009 Grab Water Sample	5731568
BD-1,07202009 Grab Water Sample	5731569
MW-132,072009 Grab Water Sample	5731570
MW-134,072009 Grab Water Sample	5731571
MW-133,072109 Grab Water Sample	5731572
MW-35,072109 Grab Water Sample	5731573
MW-138,072109 Grab Water Sample	5731574
MW-139,072109 Grab Water Sample	5731575
MW-131,072309 Grab Water Sample	5731576
MW-142,072309 Grab Water Sample	5731577
MW-141,072309 Unspiked Grab Water Sample	5731578
MW-141,072309MS Matrix Spike Grab Water Sample	5731579
MW-141,072309MSD Matrix Spike Duplicate Grab Water	5731580
MW-141,072309DUP Grab Water Sample	5731581
Trip_Blank,072309 Water Sample	5731582

METHODOLOGY

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

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Trihydro Corporation
Trihydro Corporation
Trihydro Corporation

Attn: Trihydro Database
Attn: Tim Gunn
Attn: Matthew Mitchell

Questions? Contact your Client Services Representative
Katherine A Klinefelter at (717) 656-2300

Respectfully Submitted,



Robert Strocko Jr.
Manager



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW 5731568

Group No. 1154769
OH

EB-1,07202009 Grab Water Sample
POC Sentinel 3Q-2009

Collected: 07/20/2009 08:15 by DB

Account Number: 11494

Submitted: 07/24/2009 08:50
Reported: 07/30/2009 at 08:34
Discard: 09/29/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

POCEB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B GC/MS Volatiles			ug/l	ug/l	
06291	Benzene	71-43-2	N.D.	0.5	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Ethylbenzene	100-41-4	N.D.	0.8	1
06291	Toluene	108-88-3	N.D.	0.7	1
06291	Xylene (Total)	1330-20-7	N.D.	0.8	1
SW-846 6010B Metals Dissolved			mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07055	Lead	7439-92-1	N.D.	0.0069	1

General Sample Comments

This sample was filtered in the field for dissolved metals.

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
06291	TCL by 8260 (water)	SW-846 8260B	1	L092082AA	07/27/2009 17:15	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092082AA	07/27/2009 17:15	Holly Berry	1
07055	Lead	SW-846 6010B	1	092081848002	07/28/2009 09:57	Joanne M Gates	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092081848002	07/27/2009 20:30	Mirit S Shenouda	1
07035	Arsenic	SW-846 6010B	1	092081848002	07/28/2009 09:57	Joanne M Gates	1



Analysis Report

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Lancaster Laboratories Sample No. WW 5731569

Group No. 1154769
OH

BD-1,07202009 Grab Water Sample
POC Sentinel 3Q-2009

Collected: 07/20/2009 by DB

Account Number: 11494

Submitted: 07/24/2009 08:50
Reported: 07/30/2009 at 08:34
Discard: 09/29/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

POCFD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B GC/MS Volatiles			ug/l	ug/l	
06291	Benzene	71-43-2	N.D.	0.5	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Ethylbenzene	100-41-4	N.D.	0.8	1
06291	Toluene	108-88-3	N.D.	0.7	1
06291	Xylene (Total)	1330-20-7	N.D.	0.8	1
SW-846 6010B Metals Dissolved			mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07055	Lead	7439-92-1	N.D.	0.0069	1

General Sample Comments

This sample was filtered in the field for dissolved metals.

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
06291	TCL by 8260 (water)	SW-846 8260B	1	L092082AA	07/27/2009 19:28	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092082AA	07/27/2009 19:28	Holly Berry	1
07055	Lead	SW-846 6010B	1	092081848002	07/28/2009 10:00	Joanne M Gates	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092081848002	07/27/2009 20:30	Mirit S Shenouda	1
07035	Arsenic	SW-846 6010B	1	092081848002	07/28/2009 10:00	Joanne M Gates	1



Analysis Report

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Lancaster Laboratories Sample No. WW 5731570

Group No. 1154769
OH

MW-132,072009 Grab Water Sample
POC Sentinel 3Q-2009

Collected: 07/20/2009 13:40 by DB

Account Number: 11494

Submitted: 07/24/2009 08:50
Reported: 07/30/2009 at 08:34
Discard: 09/29/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

PO132

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	GC/MS Volatiles		ug/l	ug/l	
06291	Benzene	71-43-2	N.D.	0.5	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Ethylbenzene	100-41-4	N.D.	0.8	1
06291	Toluene	108-88-3	N.D.	0.7	1
06291	Xylene (Total)	1330-20-7	N.D.	0.8	1
SW-846 6010B	Metals Dissolved		mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07055	Lead	7439-92-1	N.D.	0.0069	1

General Sample Comments

This sample was filtered in the field for dissolved metals.

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
06291	TCL by 8260 (water)	SW-846 8260B	1	L092082AA	07/27/2009 19:50	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092082AA	07/27/2009 19:50	Holly Berry	1
07055	Lead	SW-846 6010B	1	092081848002	07/28/2009 10:03	Joanne M Gates	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092081848002	07/27/2009 20:30	Mirit S Shenouda	1
07035	Arsenic	SW-846 6010B	1	092081848002	07/28/2009 10:03	Joanne M Gates	1



Analysis Report

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Lancaster Laboratories Sample No. WW 5731571

Group No. 1154769
OH

MW-134,072009 Grab Water Sample
POC Sentinel 3Q-2009

Collected: 07/20/2009 15:20 by DB

Account Number: 11494

Submitted: 07/24/2009 08:50
Reported: 07/30/2009 at 08:34
Discard: 09/29/2009

Chevron
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PO134

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B GC/MS Volatiles			ug/l	ug/l	
06291	Benzene	71-43-2	N.D.	0.5	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Ethylbenzene	100-41-4	N.D.	0.8	1
06291	Toluene	108-88-3	N.D.	0.7	1
06291	Xylene (Total)	1330-20-7	N.D.	0.8	1
SW-846 6010B Metals Dissolved			mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07055	Lead	7439-92-1	N.D.	0.0069	1

General Sample Comments

This sample was filtered in the field for dissolved metals.

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
06291	TCL by 8260 (water)	SW-846 8260B	1	L092082AA	07/27/2009 20:12	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092082AA	07/27/2009 20:12	Holly Berry	1
07055	Lead	SW-846 6010B	1	092081848002	07/28/2009 10:06	Joanne M Gates	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092081848002	07/27/2009 20:30	Mirit S Shenouda	1
07035	Arsenic	SW-846 6010B	1	092081848002	07/28/2009 10:06	Joanne M Gates	1



Analysis Report

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Lancaster Laboratories Sample No. WW 5731572

Group No. 1154769
OH

MW-133,072109 Grab Water Sample
POC Sentinel 3Q-2009

Collected: 07/21/2009 10:25 by DB

Account Number: 11494

Submitted: 07/24/2009 08:50
Reported: 07/30/2009 at 08:34
Discard: 09/29/2009

Chevron
5000 State Route 128
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PO133

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B GC/MS Volatiles			ug/l	ug/l	
06291	Benzene	71-43-2	51	0.5	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Ethylbenzene	100-41-4	N.D.	0.8	1
06291	Toluene	108-88-3	N.D.	0.7	1
06291	Xylene (Total)	1330-20-7	N.D.	0.8	1
SW-846 6010B Metals Dissolved			mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07055	Lead	7439-92-1	N.D.	0.0069	1

General Sample Comments

This sample was filtered in the field for dissolved metals.

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
06291	TCL by 8260 (water)	SW-846 8260B	1	L092082AA	07/27/2009 20:34	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092082AA	07/27/2009 20:34	Holly Berry	1
07055	Lead	SW-846 6010B	1	092081848002	07/28/2009 10:09	Joanne M Gates	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092081848002	07/27/2009 20:30	Mirit S Shenouda	1
07035	Arsenic	SW-846 6010B	1	092081848002	07/28/2009 10:09	Joanne M Gates	1



Analysis Report

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Lancaster Laboratories Sample No. WW 5731573

Group No. 1154769
OH

MW-35,072109 Grab Water Sample
POC Sentinel 3Q-2009

Collected: 07/21/2009 11:50 by DB

Account Number: 11494

Submitted: 07/24/2009 08:50
Reported: 07/30/2009 at 08:34
Discard: 09/29/2009

Chevron
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POC35

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	GC/MS Volatiles		ug/l	ug/l	
06291	Benzene	71-43-2	N.D.	0.5	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Ethylbenzene	100-41-4	N.D.	0.8	1
06291	Toluene	108-88-3	N.D.	0.7	1
06291	Xylene (Total)	1330-20-7	N.D.	0.8	1
SW-846 6010B	Metals Dissolved		mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07055	Lead	7439-92-1	N.D.	0.0069	1

General Sample Comments

This sample was filtered in the field for dissolved metals.

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
06291	TCL by 8260 (water)	SW-846 8260B	1	L092082AA	07/27/2009 20:56	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092082AA	07/27/2009 20:56	Holly Berry	1
07055	Lead	SW-846 6010B	1	092091848003	07/29/2009 20:32	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092091848003	07/29/2009 13:22	James L Mertz	1
07035	Arsenic	SW-846 6010B	1	092091848003	07/29/2009 20:32	John P Hook	1



Analysis Report

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Lancaster Laboratories Sample No. WW 5731574

Group No. 1154769
OH

MW-138,072109 Grab Water Sample
POC Sentinel 3Q-2009

Collected: 07/21/2009 14:25 by DB

Account Number: 11494

Submitted: 07/24/2009 08:50
Reported: 07/30/2009 at 08:34
Discard: 09/29/2009

Chevron
5000 State Route 128
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PO138

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	GC/MS Volatiles		ug/l	ug/l	
06291	Benzene	71-43-2	N.D.	0.5	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Ethylbenzene	100-41-4	N.D.	0.8	1
06291	Toluene	108-88-3	N.D.	0.7	1
06291	Xylene (Total)	1330-20-7	N.D.	0.8	1
SW-846 6010B	Metals Dissolved		mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07055	Lead	7439-92-1	N.D.	0.0069	1

General Sample Comments

This sample was filtered in the field for dissolved metals.

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
06291	TCL by 8260 (water)	SW-846 8260B	1	L092082AA	07/27/2009 21:18	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092082AA	07/27/2009 21:18	Holly Berry	1
07055	Lead	SW-846 6010B	1	092091848003	07/29/2009 20:35	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092091848003	07/29/2009 13:22	James L Mertz	1
07035	Arsenic	SW-846 6010B	1	092091848003	07/29/2009 20:35	John P Hook	1



Analysis Report

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Lancaster Laboratories Sample No. WW 5731575

Group No. 1154769
OH

MW-139,072109 Grab Water Sample
POC Sentinel 3Q-2009

Collected: 07/21/2009 15:25 by DB

Account Number: 11494

Submitted: 07/24/2009 08:50
Reported: 07/30/2009 at 08:34
Discard: 09/29/2009

Chevron
5000 State Route 128
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PO139

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B		GC/MS Volatiles		ug/l	
06291	Benzene	71-43-2	120	0.5	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Ethylbenzene	100-41-4	1 J	0.8	1
06291	Toluene	108-88-3	6	0.7	1
06291	Xylene (Total)	1330-20-7	5 J	0.8	1
SW-846 6010B		Metals Dissolved		mg/l	
07035	Arsenic	7440-38-2	0.0175 J	0.0072	1
07055	Lead	7439-92-1	N.D.	0.0069	1

General Sample Comments

This sample was filtered in the field for dissolved metals.

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
06291	TCL by 8260 (water)	SW-846 8260B	1	L092082AA	07/27/2009 21:40	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092082AA	07/27/2009 21:40	Holly Berry	1
07055	Lead	SW-846 6010B	1	092091848003	07/29/2009 20:44	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092091848003	07/29/2009 13:22	James L Mertz	1
07035	Arsenic	SW-846 6010B	1	092091848003	07/29/2009 20:44	John P Hook	1

Lancaster Laboratories Sample No. WW 5731576

Group No. 1154769
OH

MW-131,072309 Grab Water Sample
POC Sentinel 3Q-2009

Collected: 07/23/2009 10:05 by DB

Account Number: 11494

Submitted: 07/24/2009 08:50
Reported: 07/30/2009 at 08:34
Discard: 09/29/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

PO131

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	GC/MS Volatiles		ug/l	ug/l	
06291	Benzene	71-43-2	N.D.	0.5	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Ethylbenzene	100-41-4	N.D.	0.8	1
06291	Toluene	108-88-3	N.D.	0.7	1
06291	Xylene (Total)	1330-20-7	N.D.	0.8	1
SW-846 6010B	Metals Dissolved		mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0100 J	0.0072	1
07055	Lead	7439-92-1	N.D.	0.0069	1

General Sample Comments

This sample was filtered in the field for dissolved metals.

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
06291	TCL by 8260 (water)	SW-846 8260B	1	L092082AA	07/27/2009 22:02	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092082AA	07/27/2009 22:02	Holly Berry	1
07055	Lead	SW-846 6010B	1	092091848003	07/29/2009 20:47	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092091848003	07/29/2009 13:22	James L Mertz	1
07035	Arsenic	SW-846 6010B	1	092091848003	07/29/2009 20:47	John P Hook	1



Analysis Report

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Lancaster Laboratories Sample No. WW 5731577

Group No. 1154769
OH

MW-142,072309 Grab Water Sample
POC Sentinel 3Q-2009

Collected: 07/23/2009 11:15 by DB

Account Number: 11494

Submitted: 07/24/2009 08:50
Reported: 07/30/2009 at 08:34
Discard: 09/29/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

PO142

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	GC/MS Volatiles		ug/l	ug/l	
06291	Benzene	71-43-2	270	5	10
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Ethylbenzene	100-41-4	45	0.8	1
06291	Toluene	108-88-3	15	0.7	1
06291	Xylene (Total)	1330-20-7	61	0.8	1
SW-846 6010B	Metals Dissolved		mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0254	0.0072	1
07055	Lead	7439-92-1	N.D.	0.0069	1

General Sample Comments

This sample was filtered in the field for dissolved metals.

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
06291	TCL by 8260 (water)	SW-846 8260B	1	L092082AA	07/27/2009 22:24	Holly Berry	1
06291	TCL by 8260 (water)	SW-846 8260B	1	L092082AA	07/27/2009 22:46	Holly Berry	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092082AA	07/27/2009 22:24	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L092082AA	07/27/2009 22:46	Holly Berry	10
07055	Lead	SW-846 6010B	1	092091848003	07/29/2009 20:50	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092091848003	07/29/2009 13:22	James L Mertz	1
07035	Arsenic	SW-846 6010B	1	092091848003	07/29/2009 20:50	John P Hook	1

Lancaster Laboratories Sample No. WW 5731578
**Group No. 1154769
OH**
**MW-141,072309 Unspiked Grab Water Sample
POC Sentinel 3Q-2009**

Collected: 07/23/2009 13:30 by DB

Account Number: 11494

 Submitted: 07/24/2009 08:50
 Reported: 07/30/2009 at 08:34
 Discard: 09/29/2009

 Chevron
 5000 State Route 128
 HOOVEN OH 45033

PO141

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	GC/MS Volatiles		ug/l	ug/l	
06291	Benzene	71-43-2	400	5	10
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Ethylbenzene	100-41-4	17	0.8	1
06291	Toluene	108-88-3	11	0.7	1
06291	Xylene (Total)	1330-20-7	16	0.8	1
SW-846 6010B	Metals Dissolved		mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07055	Lead	7439-92-1	N.D.	0.0069	1

General Sample Comments

This sample was filtered in the field for dissolved metals.

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
06291	TCL by 8260 (water)	SW-846 8260B	1	L092082AA	07/27/2009 17:37	Holly Berry	1
06291	TCL by 8260 (water)	SW-846 8260B	1	L092082AA	07/27/2009 18:43	Holly Berry	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092082AA	07/27/2009 17:37	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L092082AA	07/27/2009 18:43	Holly Berry	10
07055	Lead	SW-846 6010B	1	092091848003	07/29/2009 20:14	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092091848003	07/29/2009 13:22	James L Mertz	1
07035	Arsenic	SW-846 6010B	1	092091848003	07/29/2009 20:14	John P Hook	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW 5731579
MW-141,072309MS Matrix Spike Grab Water Sample
POC Sentinel 3Q-2009

Group No. 1154769
OH

Collected: 07/23/2009 13:30 by DB

Account Number: 11494

Submitted: 07/24/2009 08:50
Reported: 07/30/2009 at 08:34
Discard: 09/29/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

PO141

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B GC/MS Volatiles			ug/l	ug/l	
06291	Benzene	71-43-2	490	0.5	1
06291	Chlorobenzene	108-90-7	21	0.8	1
06291	Ethylbenzene	100-41-4	38	0.8	1
06291	Toluene	108-88-3	32	0.7	1
06291	Xylene (Total)	1330-20-7	79	0.8	1
SW-846 6010B Metals Dissolved			mg/l	mg/l	
07035	Arsenic	7440-38-2	0.158	0.0072	1
07055	Lead	7439-92-1	0.146	0.0069	1

General Sample Comments

This sample was filtered in the field for dissolved metals.

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
06291	TCL by 8260 (water)	SW-846 8260B	1	L092082AA	07/27/2009 17:59	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092082AA	07/27/2009 17:59	Holly Berry	1
07055	Lead	SW-846 6010B	1	092091848003	07/29/2009 20:23	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092091848003	07/29/2009 13:22	James L Mertz	1
07035	Arsenic	SW-846 6010B	1	092091848003	07/29/2009 20:23	John P Hook	1



Analysis Report

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Lancaster Laboratories Sample No. WW 5731580
MW-141,072309MSD Matrix Spike Duplicate Grab Water
POC Sentinel 3Q-2009

Group No. 1154769
OH

Collected: 07/23/2009 13:30 by DB

Account Number: 11494

Submitted: 07/24/2009 08:50
Reported: 07/30/2009 at 08:34
Discard: 09/29/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

PO141

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B GC/MS Volatiles			ug/l	ug/l	
06291	Benzene	71-43-2	490	0.5	1
06291	Chlorobenzene	108-90-7	21	0.8	1
06291	Ethylbenzene	100-41-4	38	0.8	1
06291	Toluene	108-88-3	32	0.7	1
06291	Xylene (Total)	1330-20-7	79	0.8	1
SW-846 6010B Metals Dissolved			mg/l	mg/l	
07035	Arsenic	7440-38-2	0.155	0.0072	1
07055	Lead	7439-92-1	0.145	0.0069	1

General Sample Comments

This sample was filtered in the field for dissolved metals.

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
06291	TCL by 8260 (water)	SW-846 8260B	1	L092082AA	07/27/2009 18:21	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092082AA	07/27/2009 18:21	Holly Berry	1
07055	Lead	SW-846 6010B	1	092091848003	07/29/2009 20:26	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092091848003	07/29/2009 13:22	James L Mertz	1
07035	Arsenic	SW-846 6010B	1	092091848003	07/29/2009 20:26	John P Hook	1



Analysis Report

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Lancaster Laboratories Sample No. WW 5731581

Group No. 1154769
OH

MW-141,072309DUP Grab Water Sample
POC Sentinel 3Q-2009

Collected: 07/23/2009 13:30 by DB

Account Number: 11494

Submitted: 07/24/2009 08:50
Reported: 07/30/2009 at 08:34
Discard: 09/29/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

PO141

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 6010B	Metals Dissolved		mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07055	Lead	7439-92-1	N.D.	0.0069	1

General Sample Comments

This sample was filtered in the field for dissolved metals.

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
07035	Arsenic	SW-846 6010B	1	092091848003	07/29/2009 20:20	John P Hook	1
07055	Lead	SW-846 6010B	1	092091848003	07/29/2009 20:20	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092091848003	07/29/2009 13:22	James L Mertz	1

Lancaster Laboratories Sample No. WW 5731582

Group No. 1154769
OH

Trip_Blank,072309 Water Sample
POC Sentinel 3Q-2009

Collected: 07/23/2009 14:10

Account Number: 11494

Submitted: 07/24/2009 08:50
Reported: 07/30/2009 at 08:34
Discard: 09/29/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

POCTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	GC/MS Volatiles		ug/l	ug/l	
06291	Benzene	71-43-2	N.D.	0.5	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Ethylbenzene	100-41-4	N.D.	0.8	1
06291	Toluene	108-88-3	N.D.	0.7	1
06291	Xylene (Total)	1330-20-7	N.D.	0.8	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
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092082AA	07/27/2009 19:06	Holly Berry	1
06291	TCL by 8260 (water)	SW-846 8260B	1	L092082AA	07/27/2009 19:06	Holly Berry	1

Quality Control Summary

 Client Name: Chevron
 Reported: 07/30/09 at 08:34 AM

Group Number: 1154769

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

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: L092082AA	Sample number(s): 5731568-5731580,5731582							
Benzene	N.D.	0.5	ug/l	100		80-116		
Chlorobenzene	N.D.	0.8	ug/l	99		82-111		
Ethylbenzene	N.D.	0.8	ug/l	94		80-113		
Toluene	N.D.	0.7	ug/l	97		80-115		
Xylene (Total)	N.D.	0.8	ug/l	96		81-114		
Batch number: 092081848002	Sample number(s): 5731568-5731572							
Arsenic	N.D.	0.0072	mg/l	103		80-120		
Lead	N.D.	0.0069	mg/l	99		80-120		
Batch number: 092091848003	Sample number(s): 5731573-5731581							
Arsenic	N.D.	0.0072	mg/l	98		80-120		
Lead	N.D.	0.0069	mg/l	98		80-120		

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: L092082AA	Sample number(s): 5731568-5731580,5731582 UNSPK: 5731578								
Benzene	99 (2)	77 (2)	80-126	1	30				
Chlorobenzene	105	106	86-118	1	30				
Ethylbenzene	106	105	77-125	1	30				
Toluene	106	105	80-125	0	30				
Xylene (Total)	106	105	79-125	0	30				
Batch number: 092081848002	Sample number(s): 5731568-5731572 UNSPK: P731658 BKG: P731658								
Arsenic	114	112	75-125	2	20	N.D.	N.D.	0 (1)	20
Lead	87	87	75-125	1	20	N.D.	N.D.	0 (1)	20
Batch number: 092091848003	Sample number(s): 5731573-5731581 UNSPK: 5731578 BKG: 5731578								
Arsenic	105	104	75-125	2	20	N.D.	N.D.	0 (1)	20
Lead	97	96	75-125	1	20	N.D.	N.D.	0 (1)	20

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.

*- 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: Chevron
Reported: 07/30/09 at 08:34 AM

Group Number: 1154769

Surrogate Quality Control

Analysis Name: TCL by 8260 (water)
Batch number: L092082AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5731568	96	101	92	85
5731569	96	99	92	86
5731570	96	100	93	86
5731571	97	99	92	85
5731572	95	98	93	85
5731573	96	100	93	86
5731574	96	99	94	86
5731575	95	98	93	87
5731576	96	101	91	85
5731577	94	98	95	88
5731578	94	99	95	89
5731579	94	97	96	91
5731580	94	100	96	90
5731582	96	100	92	86
Blank	96	100	92	86
LCS	96	99	94	90
MS	94	97	96	91
MSD	94	100	96	90
Limits:	80-116	77-113	80-113	78-113

*- 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.

11494, 1154769, 5731568-82

Analytical Requests "POC Sentinel and SWQ 3Q 2009"
Chevron Cincinnati Facility, Hooven, Ohio

Volatile Organics

Benzene
Chlorobenzene
Ethylbenzene
Toluene
Xylenes (total)

Dissolved Metals – field filtered

Arsenic
Lead

Environmental Sample Administration Receipt Documentation Log

Client/Project: Cherion 11494
 Date of Receipt: 7/24/09
 Time of Receipt: 850
 Source Code: 50-1
 Unpacker Emp. No.: 2316

Shipping Container Sealed: YES NO

Custody Seal Present * : YES NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	0419983	2.6°C	TB	WI	Y	L	
2	 						
3	 						
4	 						
5	 						
6	 						

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Sample Administration Internal Chain of Custody			
Name	Date	Time	Reason for Transfer
<u>B/O</u>	7/24/09	950	Unpacking
<u>Ala Reslund</u>	7/24/09	1000	Place in Storage or <input checked="" type="radio"/> Entry
			Entry
			Entry

Lancaster Laboratories Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	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		
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.		

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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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