

ANALYTICAL RESULTS

Prepared for:

Chevron
5000 State Route 128
HOOVEN OH 45033

Prepared by:

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

September 22, 2009

SAMPLE GROUP

The sample group for this submittal is 1162150. Samples arrived at the laboratory on Thursday, September 17, 2009. The PO# for this group is 0015039270 and the release number is 50008931.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
MW-133,091409 Grab Water Sample	5778323
MW-35,091409 Grab Water Sample	5778324
MW-138,091509 Grab Water Sample	5778325
MW-139,091509 Grab Water Sample	5778326
MW-142,091509 Grab Water Sample	5778327
Trip_Blank,091609 Water Sample	5778328

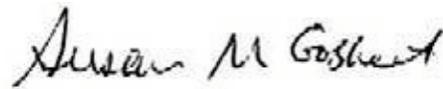
METHODOLOGY

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

ELECTRONIC COPY TO	Trihydro Corporation	Attn: Trihydro Database
ELECTRONIC COPY TO	Trihydro Corporation	Attn: Tim Gunn
ELECTRONIC COPY TO	Trihydro Corporation	Attn: Matthew Mitchell

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

Respectfully Submitted,



Susan M. Goshert
Group Leader



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 5778323

Group No. 1162150
OH

MW-133,091409 Grab Water Sample
Monthly Southwest Quad

Collected: 09/14/2009 10:25 by DB

Account Number: 11494

Submitted: 09/17/2009 09:15
Reported: 09/22/2009 at 16:52
Discard: 11/22/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

QU133 SDG#: HVQ25-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			ug/l	ug/l	
06291	Benzene	71-43-2	N.D.	0.5	1
06291	Bromodichloromethane	75-27-4	N.D.	1	1
06291	Bromoform	75-25-2	N.D.	1	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Chloroform	67-66-3	N.D.	0.8	1
06291	Dibromochloromethane	124-48-1	N.D.	1	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
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 field filtered 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	L092611AA	09/18/2009 08:44	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092611AA	09/18/2009 08:44	Stephanie A Selis	1
07055	Lead	SW-846 6010B	1	092611848003	09/21/2009 03:43	Tara L Snyder	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092611848003	09/18/2009 15:40	James L Mertz	1
07035	Arsenic	SW-846 6010B	1	092611848003	09/21/2009 03:43	Tara L Snyder	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 5778324

Group No. 1162150
OH

MW-35,091409 Grab Water Sample
Monthly Southwest Quad

Collected: 09/14/2009 11:55 by DB

Account Number: 11494

Submitted: 09/17/2009 09:15
Reported: 09/22/2009 at 16:52
Discard: 11/22/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

QU-35 SDG#: HVQ25-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			ug/l	ug/l	
06291	Benzene	71-43-2	N.D.	0.5	1
06291	Bromodichloromethane	75-27-4	N.D.	1	1
06291	Bromoform	75-25-2	N.D.	1	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Chloroform	67-66-3	N.D.	0.8	1
06291	Dibromochloromethane	124-48-1	N.D.	1	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
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 field filtered 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	L092611AA	09/18/2009 09:06	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092611AA	09/18/2009 09:06	Stephanie A Selis	1
07055	Lead	SW-846 6010B	1	092611848003	09/21/2009 04:02	Tara L Snyder	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092611848003	09/18/2009 15:40	James L Mertz	1
07035	Arsenic	SW-846 6010B	1	092611848003	09/21/2009 04:02	Tara L Snyder	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 5778325

Group No. 1162150
OH

MW-138,091509 Grab Water Sample
Monthly Southwest Quad

Collected: 09/15/2009 13:25 by DB

Account Number: 11494

Submitted: 09/17/2009 09:15
Reported: 09/22/2009 at 16:52
Discard: 11/22/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

QU138 SDG#: HVQ25-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			ug/l	ug/l	
06291	Benzene	71-43-2	N.D.	0.5	1
06291	Bromodichloromethane	75-27-4	N.D.	1	1
06291	Bromoform	75-25-2	N.D.	1	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Chloroform	67-66-3	N.D.	0.8	1
06291	Dibromochloromethane	124-48-1	N.D.	1	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
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 field filtered 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	L092611AA	09/18/2009 09:28	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092611AA	09/18/2009 09:28	Stephanie A Selis	1
07055	Lead	SW-846 6010B	1	092611848003	09/21/2009 04:06	Tara L Snyder	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092611848003	09/18/2009 15:40	James L Mertz	1
07035	Arsenic	SW-846 6010B	1	092611848003	09/21/2009 04:06	Tara L Snyder	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 5778326

Group No. 1162150
OH

MW-139,091509 Grab Water Sample
Monthly Southwest Quad

Collected: 09/15/2009 14:45 by DB

Account Number: 11494

Submitted: 09/17/2009 09:15
Reported: 09/22/2009 at 16:52
Discard: 11/22/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

QU139 SDG#: HVQ25-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			ug/l	ug/l	
06291	Benzene	71-43-2	48	0.5	1
06291	Bromodichloromethane	75-27-4	N.D.	1	1
06291	Bromoform	75-25-2	N.D.	1	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Chloroform	67-66-3	N.D.	0.8	1
06291	Dibromochloromethane	124-48-1	N.D.	1	1
06291	Ethylbenzene	100-41-4	N.D.	0.8	1
06291	Toluene	108-88-3	2 J	0.7	1
06291	Xylene (Total)	1330-20-7	0.9 J	0.8	1
Metals Dissolved			mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0097 J	0.0072	1
07055	Lead	7439-92-1	N.D.	0.0069	1

General Sample Comments

This sample was field filtered 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	L092611AA	09/18/2009 09:50	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092611AA	09/18/2009 09:50	Stephanie A Selis	1
07055	Lead	SW-846 6010B	1	092611848003	09/21/2009 04:15	Tara L Snyder	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092611848003	09/18/2009 15:40	James L Mertz	1
07035	Arsenic	SW-846 6010B	1	092611848003	09/21/2009 04:15	Tara L Snyder	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 5778327

Group No. 1162150
OH

MW-142,091509 Grab Water Sample
Monthly Southwest Quad

Collected: 09/15/2009 15:50 by DB

Account Number: 11494

Submitted: 09/17/2009 09:15
Reported: 09/22/2009 at 16:52
Discard: 11/22/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

QU142 SDG#: HVQ25-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			ug/l	ug/l	
06291	Benzene	71-43-2	150	0.5	1
06291	Bromodichloromethane	75-27-4	N.D.	1	1
06291	Bromoform	75-25-2	N.D.	1	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Chloroform	67-66-3	N.D.	0.8	1
06291	Dibromochloromethane	124-48-1	N.D.	1	1
06291	Ethylbenzene	100-41-4	150	0.8	1
06291	Toluene	108-88-3	19	0.7	1
06291	Xylene (Total)	1330-20-7	130	0.8	1
Metals Dissolved			mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0219	0.0072	1
07055	Lead	7439-92-1	N.D.	0.0069	1

General Sample Comments

This sample was field filtered 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	L092611AA	09/18/2009 11:26	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092611AA	09/18/2009 11:26	Linda C Pape	1
07055	Lead	SW-846 6010B	1	092611848003	09/21/2009 04:18	Tara L Snyder	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092611848003	09/18/2009 15:40	James L Mertz	1
07035	Arsenic	SW-846 6010B	1	092611848003	09/21/2009 04:18	Tara L Snyder	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 5778328

Group No. 1162150
OH

Trip_Blank,091609 Water Sample
Monthly Southwest Quad

Collected: 09/16/2009 15:00

Account Number: 11494

Submitted: 09/17/2009 09:15
Reported: 09/22/2009 at 16:52
Discard: 11/22/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

QUATB SDG#: HVQ25-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	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	L092611AA	09/18/2009 08:23	Stephanie A Selis	1
06291	TCL by 8260 (water)	SW-846 8260B	1	L092611AA	09/18/2009 08:23	Stephanie A Selis	1

Quality Control Summary

Client Name: Chevron

Group Number: 1162150

Reported: 09/22/09 at 04:52 PM

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: L092611AA	Sample number(s): 5778323-5778328							
Benzene	N.D.	0.5	ug/l	96	95	79-120	1	30
Bromodichloromethane	N.D.	1.	ug/l	88	89	80-120	1	30
Bromoform	N.D.	1.	ug/l	80	79	61-120	1	30
Chlorobenzene	N.D.	0.8	ug/l	96	96	80-120	0	30
Chloroform	N.D.	0.8	ug/l	98	97	77-122	1	30
Dibromochloromethane	N.D.	1.	ug/l	84	83	80-120	0	30
Ethylbenzene	N.D.	0.8	ug/l	92	89	79-120	3	30
Toluene	N.D.	0.7	ug/l	95	96	79-120	1	30
Xylene (Total)	N.D.	0.8	ug/l	95	94	80-120	1	30
Batch number: 092611848003	Sample number(s): 5778323-5778327							
Arsenic	N.D.	0.0072	mg/l	103		80-120		
Lead	N.D.	0.0069	mg/l	101		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: L092611AA	Sample number(s): 5778323-5778328 UNSPK: P774986								
Benzene	105		80-126						
Bromodichloromethane	89		78-125						
Bromoform	61		60-121						
Chlorobenzene	103		87-124						
Chloroform	105		81-134						
Dibromochloromethane	73*		74-116						
Ethylbenzene	101		71-134						
Toluene	107		80-125						
Xylene (Total)	105		79-125						
Batch number: 092611848003	Sample number(s): 5778323-5778327 UNSPK: 5778323 BKG: 5778323								
Arsenic	107	107	75-125	0	20	N.D.	N.D.	0 (1)	20
Lead	103	100	75-125	3	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: 09/22/09 at 04:52 PM

Group Number: 1162150

Surrogate Quality Control

Analysis Name: TCL by 8260 (water)
Batch number: L092611AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5778323	90	92	91	86
5778324	91	93	91	86
5778325	91	92	91	87
5778326	91	91	90	88
5778327	87	89	92	92
5778328	91	92	91	86
Blank	91	91	93	87
LCS	92	93	93	89
LCSD	91	93	94	89
MS	91	92	95	91
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.

Analysis Request/ Environmental Services Chain of Custody



For Lancaster Laboratories use only

Acct. # 11494 Group# 1162150 Sample # 5778323-28 **COC #** 216248

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

<p>1 Client: <u>CHEVRON</u> Acct. #: <u>11494</u></p> <p>Project Name/#: <u>MONTHLY SOUTHWEST QUAD</u> PWSID # <u>NWRCN 17000 M20</u></p> <p>Project Manager: <u>DOUG LAM</u> P.O.#: _____</p> <p>Sampler: <u>DALE BARRETT</u> Quote #: _____</p> <p>Name of state where samples were collected: <u>OHIO</u></p>				<p>4 Matrix</p> <p><input type="checkbox"/> Potable <input type="checkbox"/> Check if hazardous</p> <p><input type="checkbox"/> Water <input type="checkbox"/> Other</p>		<p>5 Analyses Requested</p> <p style="text-align: center;">Preservation Codes</p>										<p>For Lab Use Only</p> <p>FSC: _____</p> <p>SCR#: _____</p>							
						<p>6 Preservation Codes</p> <p>H=HCl T=Thiosulfate</p> <p>N=HNO₃ B=NaOH</p> <p>S=H₂SO₄ O=Other</p>										<p>6 Temperature of samples upon receipt (if requested)</p>							
<p>2 Sample Identification</p>				<p>3 Composite</p>		<p>4 Total # of Containers</p>		<p>5 Analyses Requested</p>										<p>6 Temperature of samples upon receipt (if requested)</p>					
<p>Date Collected</p>				<p>Time Collected</p>		<p>Grab</p>		<p>Soil</p>		<p>Water</p>		<p>Other</p>		<p>Remarks</p>									
<p>MW-133, 091409</p>				<p>9-14-09 1025</p>		<p>X</p>		<p>X</p>		<p>4</p>		<p>X</p>		<p>SEE ATTACHED ANALYTE LIST</p>									
<p>MW-35, 091409</p>				<p>9-14-09 1155</p>		<p>X</p>		<p>X</p>		<p>4</p>		<p>X</p>		<p>QC SUMMARY DATA PACKAGE</p>									
<p>MW-138, 091509</p>				<p>9-15-09 1325</p>		<p>X</p>		<p>X</p>		<p>4</p>		<p>X</p>		<p>TRIP BLANK, 091609</p>									
<p>MW-139, 091509</p>				<p>9-15-09 1445</p>		<p>X</p>		<p>X</p>		<p>4</p>		<p>X</p>		<p>TRIP BLANK, 091609</p>									
<p>MW-142, 091509</p>				<p>9-15-09 1550</p>		<p>X</p>		<p>X</p>		<p>4</p>		<p>X</p>		<p>TRIP BLANK, 091609</p>									
<p>TRIP BLANK, 091609</p>				<p>9-16-09 1500</p>		<p>X</p>		<p>X</p>		<p>2</p>		<p>X</p>		<p>TRIP BLANK, 091609</p>									

7 Turnaround Time Requested (TAT) (please circle): Normal Rush
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
 Date results are needed: ASAP
 Rush results requested by (please circle): Phone Fax E-mail
 Phone #: 513 353 1323 Fax #: 513 353 4664
 E-mail address: MMITCHELL@TRIHYDRO.COM

Relinquished by:		Date	Time	Received by:		Date	Time
<u>Dale Barrett</u>		<u>9/16/09</u>	<u>1530</u>				
Relinquished by:		Date	Time	Received by:		Date	Time
Relinquished by:		Date	Time	Received by:		Date	Time
Relinquished by:		Date	Time	Received by:		Date	Time
Relinquished by:		Date	Time	Received by:		Date	Time
				<u>Kristin Zagar</u>		<u>9-17-09</u>	<u>0915</u>

8 Data Package Options (please circle if required)

Type I (validation/NJ Reg)	TX TRRP-13	SDG Complete?
Type II (Tier II)	MA MCP CT RCP	Yes No
Type III (Reduced NJ)	Site-specific QC (MS/MSD/Dup)? Yes No	
Type IV (CLP SOW)	(If yes, indicate QC sample and submit indicate volume.)	
Type VI (Raw Data Only)	Internal COC Required? Yes / No	

Analytical Requests for Groundwater Monthly Southwest Quad
Chevron Cincinnati Facility, Hoover, Ohio

Volatile Organics

Benzene	Trihalomethanes (THM)
Chlorobenzene	
Ethylbenzene	
Toluene	
Xylenes (total)	

Dissolved Metals – field filtered

Arsenic
Lead

Environmental Sample Administration Receipt Documentation Log

Client/Project: Chevron
 Date of Receipt: 9-17-09
 Time of Receipt: 0915
 Source Code: 50-1
 Unpacker Emp. No.: 2123

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	0429951	2.0°	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>Kristin Taylor</u>	<u>9-17-09</u>	<u>1010</u>	Unpacking / <u>Storage</u>
<u>Mary Beth Reed</u>	<u>9/17/09</u>	<u>1025</u>	Place in Storage or <u>Entry</u>
			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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