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Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron
5000 State Route 128
HOOVEN OH 45033

Prepared by:

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

October 09, 2009

Project: Hooven Barrier Monitoring Network

Samples arrived at the laboratory on Friday, October 02, 2009. The PO# for this group is 0015039270 and the release number is 50008931. The group number for this submittal is 1164598.

Client Sample Description	Lancaster Labs (LLI) #
BSW-1D,092909 Grab Water Sample	5794757
BSW-1S,092909 Grab Water Sample	5794758
BSW-3S,092909 Grab Water Sample	5794759
BSW-3D,092909 Grab Water Sample	5794760
BSW-2S,092909 Grab Water Sample	5794761
BSW-2D,092909 Grab Water Sample	5794762
Trip_Blank,092909 Water Sample	5794763

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
ELECTRONIC COPY TO	Trihydro Corporation	Attn: Doug Lam

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Analysis Report

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

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: BSW-1D,092909 Grab Water Sample
Barrier Monitoring Network

LLI Sample # WW 5794757
LLI Group # 1164598
OH

Project Name: Hooven Barrier Monitoring Network

Collected: 09/29/2009 09:35 by JH

Account Number: 11494

Submitted: 10/02/2009 09:15
Reported: 10/09/2009 at 07:42
Discard: 12/09/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

BSW1D

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	1 J	0.8	1
06291	Toluene	108-88-3	N.D.	0.7	1
06291	Xylene (Total)	1330-20-7	6	0.8	1
Metals Dissolved	**SW-846 6010B**		**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	L092791AA	10/06/2009 23:50	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092791AA	10/06/2009 23:50	Michael A Ziegler	1
07055	Lead	SW-846 6010B	1	092781848002	10/06/2009 20:56	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092781848002	10/06/2009 09:15	Denise K Conners	1
07035	Arsenic	SW-846 6010B	1	092781848002	10/08/2009 12:52	Joanne M Gates	1

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Analysis Report

Sample Description: BSW-1S,092909 Grab Water Sample
Barrier Monitoring Network

LLI Sample # WW 5794758
LLI Group # 1164598
OH

Project Name: Hooven Barrier Monitoring Network

Collected: 09/29/2009 10:20 by JH

Account Number: 11494

Submitted: 10/02/2009 09:15
Reported: 10/09/2009 at 07:42
Discard: 12/09/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

BSW1S

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
Metals Dissolved	**SW-846 6010B**		**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	L092791AA	10/07/2009 00:12	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092791AA	10/07/2009 00:12	Michael A Ziegler	1
07055	Lead	SW-846 6010B	1	092781848002	10/06/2009 20:58	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092781848002	10/06/2009 09:15	Denise K Conners	1
07035	Arsenic	SW-846 6010B	1	092781848002	10/08/2009 13:02	Joanne M Gates	1

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Analysis Report

Sample Description: BSW-3S,092909 Grab Water Sample
Barrier Monitoring Network

LLI Sample # WW 5794759
LLI Group # 1164598
OH

Project Name: Hooven Barrier Monitoring Network

Collected: 09/29/2009 16:55 by JH

Account Number: 11494

Submitted: 10/02/2009 09:15
Reported: 10/09/2009 at 07:42
Discard: 12/09/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

BSW3S

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	2 J	0.8	1
Metals Dissolved	**SW-846 6010B**		**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	L092791AA	10/07/2009 00:34	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092791AA	10/07/2009 00:34	Michael A Ziegler	1
07055	Lead	SW-846 6010B	1	092781848002	10/06/2009 21:01	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092781848002	10/06/2009 09:15	Denise K Conners	1
07035	Arsenic	SW-846 6010B	1	092781848002	10/08/2009 13:05	Joanne M Gates	1

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Analysis Report

Sample Description: BSW-3D,092909 Grab Water Sample
Barrier Monitoring Network

LLI Sample # WW 5794760
LLI Group # 1164598
OH

Project Name: Hooven Barrier Monitoring Network

Collected: 09/29/2009 15:50 by JH

Account Number: 11494

Submitted: 10/02/2009 09:15
Reported: 10/09/2009 at 07:42
Discard: 12/09/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

BSW3D

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	2 J	0.8	1
Metals Dissolved	**SW-846 6010B**		**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	L092791AA	10/07/2009 00:56	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092791AA	10/07/2009 00:56	Michael A Ziegler	1
07055	Lead	SW-846 6010B	1	092781848002	10/06/2009 21:04	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092781848002	10/06/2009 09:15	Denise K Conners	1
07035	Arsenic	SW-846 6010B	1	092781848002	10/08/2009 13:09	Joanne M Gates	1

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Analysis Report

Sample Description: BSW-2S,092909 Grab Water Sample
Barrier Monitoring Network

LLI Sample # WW 5794761
LLI Group # 1164598
OH

Project Name: Hooven Barrier Monitoring Network

Collected: 09/29/2009 13:25 by JH

Account Number: 11494

Submitted: 10/02/2009 09:15
Reported: 10/09/2009 at 07:42
Discard: 12/09/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

BSW2S

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	3 J	0.8	1
Metals Dissolved	**SW-846 6010B**		**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	L092791AA	10/07/2009 01:18	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092791AA	10/07/2009 01:18	Michael A Ziegler	1
07055	Lead	SW-846 6010B	1	092781848002	10/06/2009 21:07	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092781848002	10/06/2009 09:15	Denise K Conners	1
07035	Arsenic	SW-846 6010B	1	092781848002	10/08/2009 13:12	Joanne M Gates	1

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Analysis Report

Sample Description: BSW-2D,092909 Grab Water Sample
Barrier Monitoring Network

LLI Sample # WW 5794762
LLI Group # 1164598
OH

Project Name: Hooven Barrier Monitoring Network

Collected: 09/29/2009 12:45 by JH

Account Number: 11494

Submitted: 10/02/2009 09:15
Reported: 10/09/2009 at 07:42
Discard: 12/09/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

BSW2D

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	2 J	0.8	1
Metals Dissolved	**SW-846 6010B**		**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	L092791AA	10/07/2009 01:39	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L092791AA	10/07/2009 01:39	Michael A Ziegler	1
07055	Lead	SW-846 6010B	1	092781848002	10/06/2009 21:10	John P Hook	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	092781848002	10/06/2009 09:15	Denise K Conners	1
07035	Arsenic	SW-846 6010B	1	092781848002	10/08/2009 13:15	Joanne M Gates	1

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Analysis Report

Sample Description: Trip_Blank,092909 Water Sample
Barrier Monitoring Network

LLI Sample # WW 5794763
LLI Group # 1164598
OH

Project Name: Hooven Barrier Monitoring Network

Collected: 09/29/2009 12:40

Account Number: 11494

Submitted: 10/02/2009 09:15
Reported: 10/09/2009 at 07:42
Discard: 12/09/2009

Chevron
5000 State Route 128
HOOVEN OH 45033

BSWTB

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	L092791AA	10/06/2009 19:50	Michael A Ziegler	1
06291	TCL by 8260 (water)	SW-846 8260B	1	L092791AA	10/06/2009 19:50	Michael A Ziegler	1

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Analysis Report

Quality Control Summary

Client Name: Chevron Group Number: 1164598
Reported: 10/09/09 at 07:42 AM

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: L092791AA	Sample number(s): 5794757-5794763							
Benzene	N.D.	0.5	ug/l	105	102	79-120	3	30
Chlorobenzene	N.D.	0.8	ug/l	107	105	80-120	1	30
Ethylbenzene	N.D.	0.8	ug/l	104	101	79-120	2	30
Toluene	N.D.	0.7	ug/l	104	103	79-120	1	30
Xylene (Total)	N.D.	0.8	ug/l	107	102	80-120	4	30
Batch number: 092781848002	Sample number(s): 5794757-5794762							
Arsenic	N.D.	0.0072	mg/l	100		89-115		
Lead	N.D.	0.0069	mg/l	97		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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: L092791AA	Sample number(s): 5794757-5794763 UNSPK: P797145								
Benzene	109		80-126						
Chlorobenzene	112		87-124						
Ethylbenzene	110		71-134						
Toluene	110		80-125						
Xylene (Total)	113		79-125						
Batch number: 092781848002	Sample number(s): 5794757-5794762 UNSPK: P793976 BKG: P793976								
Arsenic	105	102	75-125	3	20	N.D.	N.D.	0 (1)	20
Lead	99	99	75-125	0	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.

Analysis Name: TCL by 8260 (water)
Batch number: L092791AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5794757	102	101	103	99
5794758	102	99	104	94
5794759	101	99	102	98

*- 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 Group Number: 1164598
Reported: 10/09/09 at 07:42 AM

Surrogate Quality Control

5794760	102	99	103	98
5794761	102	100	103	99
5794762	101	99	103	97
5794763	101	100	104	95
Blank	101	102	103	101
LCS	100	103	103	101
LCSD	102	102	104	95
MS	101	103	102	102
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

Lancaster Laboratories

For Lancaster Laboratories use only
Acct. # 11494 Group# 1164598 Sample # 5794157-63

COC # 211755

Please print. Instructions on reverse side correspond with circled numbers. Cooler temp 1.9°C

For Lab Use Only
FSC:
SCR#:

(1)
Client: Chevron Acct. #: 11494
Project Name/#: Barrier Monitoring Network PWSID #: NMCN7000MRO
Project Manager: Doug Lam P.O.#:
Sampler: John Hall Quote #:
Name of state where samples were collected: OHIO

(2) Sample Identification	Date Collected	Time Collected	(3) Grab	Composite	(4) Matrix: Soil	Water (Potable / NPDES)	Other	Total # of Containers	(5) Analyses Requested: Preservation Codes H	N	Dissolved As, Se
BSW-1D, 092909	9-29-09	0935	X			X		4	3	1	
BSW-1S, 092909	9-29-09	1020	X			X		4	3	1	
BSW-3S, 092909	9-29-09	1655	X			X		4	3	1	
BSW-3D, 092909	9-29-09	1550	X			X		4	3	1	
BSW-2S, 092909	9-29-09	1325	X			X		4	3	1	
BSW-2D, 092909	9-29-09	1245	X			X		4	3	1	
Trip Blank, 092909	9-29-09	1240	X			X		2	2		

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

(6) Temperature of samples upon receipt (if requested)

Remarks
*QC Summary Data Package
*Dissolved Metals are Field Filtered
*See Attached Analyte Lists

(7) **Turnaround Time Requested** (TAT) (please circle): (Normal) Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax (E-mail)
Phone #: 513-353-1323 Fax #: 513-353-4614
E-mail address: dlam@trihydro.com

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

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
	10-1-09	1650			
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:	10/2/09	915

acct# 11494 Ap# 1164598 Sample# 5794757-63

Analytical Requests for Groundwater
Chevron Cincinnati Facility, Hooven, Ohio

COC LIST

Volatile Organics
- Benzene
- Chlorobenzene
- Ethylbenzene
- Toluene
- Xylenes (total)

Dissolved Metals- *field filtered*
- Arsenic
- Lead

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Environmental Sample Administration
Receipt Documentation Log

Client/Project: Chevron

Date of Receipt: 10/2/09

Time of Receipt: 915

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	070583	1.9°C	TB	WI	Y	B	
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
Darryl Barlow	10/2/09	1535	Unpacking to storage
Tammy Heland	10/2/09	1619	Place in Storage or (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 limit of quantitation, 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 quatitated 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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