

2012 Water Analysis



The following are water analysis of the Upper Leon River MWD for the year indicated, as required by the Texas Commission on Environmental Quality (TCEQ) and the Federal EPA

Analysis Type	Collection Date	Analysis Date
Trihalomethanes (TTHM)	03/15/12	03/16/12
Haloacetic Acids (HAA5)	03/15/12	03/22/12
Minerals	06/19/12	6/26/12
Trihalomethanes (TTHM)	06/19/12	06/21/12
Haloacetic Acids (HAA5)	06/19/12	06/28/12
SOC ₅	06/19/12	06/27/12
Pesticides	06/19/12	06/28/12
Sodium	06/19/12	06/21/12
Radiochemicals	06/19/12	08/14/12 (reported)
Trihalomethanes (TTHM)	09/25/12	09/28/12
Haloacetic Acids (HAA5)	09/25/12	10/06/12
VOC	09/25/12	09/28/12
Trihalomethanes (TTHM)	12/20/12	12/31/12
Haloacetic Acids (HAA5)	12/20/12	01/03/13
Asbestos	12/20/12	02/22/13



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LABORATORY SERVICES SECTION, MC-1947
1100 W. 49th St., Austin, Tx. 78756 (512)458-7587

Trihalomethanes Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 03/27/2012
Report ID# : 20120327105828AB84228

Lab Sample ID# : AB84228
Sample Priority : NORMAL
TCEQ ID#(s) : 1240349

Water Source :
Entry Point(s) : DBP1-01

Date Collected : 03/15/2012 14:36
Date Received : 03/16/2012
Date Analyzed : 03/16/2012

Conc. Units : µg/L
Method : EPA 502.2
Analyst : DC
Sample Cond. : Acceptable

Trihalomethanes	Result	Qualifier
Chloroform	4.0	
Bromodichloromethane	8.7	
Dibromochloromethane	9.1	
Bromoform	4.6	
Total THM ¹	26.4	

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(*) meet all TNI (2009 Standard) requirements.



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Haloacetic Acids Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 03/27/2012

Report ID# : 20120327105828AB84234

Lab Sample ID# : AB84234
Sample Priority : NORMAL
TCEQ ID#(s) : 1233480

Water Source :
Entry Point(s) : DBP1-01

Date Collected : 03/15/2012 14:35
Date Received : 03/16/2012
Date Analyzed : 03/22/2012
Extraction Date : 03/19/2012

Conc. Units : µg/L
Method : 552.2 Rev 1.0
Analyst : JL
Sample Cond. : Acceptable

<u>Regulated Compounds</u>	<u>Result</u>	<u>Qualifier</u>
Monochloroacetic acid	<2.0	
Dichloroacetic acid	13.2	
Trichloroacetic acid	1.4	
Monobromoacetic acid	<1.0	
Dibromoacetic acid	7.8	
Total HAA5 ¹	22.4	
<u>Monitored Compounds</u>	<u>Result</u>	<u>Qualifier</u>
Bromochloroacetic acid	13.1	
Dalapon	<1.0	
<u>Comments:</u>		

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(*) meet all TNI (2009 Standard) requirements.

Authorized by Team Lead TDUNN on 03/26/2012



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***ALL MINERALS
Analysis Report**

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 07/03/2012
Report ID# : 20120703100638AB93199

Lab Sample ID# : AB93199
Sample Priority : NORMAL
TCEQ ID#(s) : 1216933

Water Source :
Entry Point(s) : EP001

Date Collected : 06/19/2012 12:37
Date Received : 06/20/2012

Sample Cond. : Acceptable

Analyte	Result	Unit	Method	Date/Time Analyzed	Analyst
pH	7.2	pH	SM 4500-H B	06/20/2012 16:30	LA
Diluted Conductance ¹	592	µmho/cm	SM 2510 B	06/26/2012 10:10	MD
Phenolphthalein Alkalinity as CaCO ₃	<2	mg/L	SM 2320B	06/26/2012 08:52	AH
Total Alkalinity as CaCO ₃	106	mg/L	SM 2320B	06/26/2012 08:52	AH
Bicarbonate	129	mg/L	SM 2320B	06/26/2012 13:48	AH
Carbonate	<2	mg/L	SM 2320B	06/26/2012 13:48	AH
Fluoride ¹	0.16	mg/L	EPA 300.0	06/22/2012 18:10	AH
Chloride ¹	70	mg/L	EPA 300.0	06/22/2012 18:10	AH
Sulfate ¹	61	mg/L	EPA 300.0	06/22/2012 18:10	AH
Total Dissolved Solids ¹	315	mg/L	SM 2540C	06/26/2012 10:00	MD
Nitrate as N ¹	0.13	mg/L	EPA 353.2	06/21/2012 15:04	LM

Comments:

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Authorized by Team Lead LARCHER on 06/29/2012



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Trihalomethanes by GC/MS Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 07/10/2012
Report ID# : 20120710095512AB93227

Lab Sample ID# : AB93227
Sample Priority : NORMAL
TCEQ ID#(s) : 1241545

Water Source :
Entry Point(s) : DBP1-01

Date Collected : 06/19/2012 12:06
Date Received : 06/20/2012
Date Analyzed : 06/21/2012

Conc. Units : µg/L
Method : EPA 524.2
Analyst : JO
Sample Cond. : Acceptable

Trihalomethanes	Result	Qualifier
Chloroform	5.5	
Bromodichloromethane	12.1	
Dibromochloromethane	12.2	
Bromoform	7.3	
Total Trihalomethanes ¹	37.1	

Screened Compounds	Result	Qualifier
Vinyl chloride ¹	<0.5	

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(¹) meet all TNI (2009 Standard) requirements.

Authorized by Analyst HHAJPOUR815 on 07/03/2012



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Haloacetic Acids Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 07/03/2012
Report ID# : 20120703100638AB93250

Lab Sample ID# : AB93250
Sample Priority : NORMAL
TCEQ ID#(s) : 1234676

Water Source :
Entry Point(s) : DBP1-01

Date Collected : 06/19/2012 12:05
Date Received : 06/20/2012
Date Analyzed : 06/28/2012
Extraction Date : 06/26/2012
Conc. Units : µg/L
Method : 552.2 Rev 1.0
Analyst : CS
Sample Cond. : Acceptable

Regulated Compounds	Result	Qualifier
Monochloroacetic acid	7.4	
Dichloroacetic acid	13.1	
Trichloroacetic acid	2.2	
Monobromoacetic acid	1.1	
Dibromoacetic acid	9.6	
Total HAA5 ¹	33.4	

Monitored Compounds	Result	Qualifier
Bromochloroacetic acid	14.1	
Dalapon	<1.0	

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(¹) meet all TNI (2009 Standard) requirements.

Authorized by Team Lead TDUNN on 06/29/2012

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**Semivolatiles Organic
Analysis Report**

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 07/10/2012

Report ID# : 20120710095512AB93300

Lab Sample ID# : AB93300
Sample Priority : NORMAL
TCEQ ID#(s) : 1216226

Water Source :
Entry Point(s) : EP001

Date Collected : 06/19/2012 12:39
Date Received : 06/20/2012
Date Analyzed : 06/27/2012
Extraction Date : 06/26/2012
Conc. Units : µg/L
Method : EPA 525.2
Analyst : DH
Sample Cond. : Acceptable

Regulated Compounds	Result	Qualifier	Monitored Compounds continued	Result	Qualifier
Alachlor ¹	<0.2		Dimethylphthalate	<2.0	
Atrazine ¹	<0.1		Fluorene	<0.20	
Benzo[a]pyrene ¹	<0.02		2,2',3,3',4,4',6-Heptachlorobiphenyl	<0.50	
alpha-Chlordane	<0.2		2,2',4,4',5,6'-Hexachlorobiphenyl	<0.20	
gamma-Chlordane	<0.2		Indeno[1,2,3-cd]pyrene	<0.20	
trans-Nonachlor	<0.2		Metolachlor	<0.20	
Di(2-ethylhexyl) adipate ¹	<0.6		Metribuzin	<0.20	
Di(2-ethylhexyl) phthalate ¹	<0.6		Naphthalene	<0.20	
Heptachlor ¹	<0.04		2,2',3,3',4,5',6,6'-Octachlorobiphenyl	<0.50	
Hexachlorobenzene ¹	<0.1		2,2',3',4,6-Pentachlorobiphenyl	<0.20	
Hexachlorocyclopentadiene ¹	<0.1	*	Phenanthrene	<0.20	
Lindane ¹	<0.02		Prometon	<0.20	*
Methoxychlor ¹	<0.1		Propachlor	<0.20	
Pentachlorophenol ¹	<0.04		Pyrene	<0.20	
Simazine ¹	<0.07		2,2',4,4'-Tetrachlorobiphenyl	<0.20	
Monitored Compounds	Result	Qualifier	2,4,5-Trichlorobiphenyl	<0.20	
Acenaphthene	<0.20		Trifluralin	<0.20	
Acenaphthylene	<0.20		Comments:		
Aldrin	<0.20	L	* - This analyte has known instability and/or method performance issues and quantitation should be considered approximate.		
Anthracene	<0.20		L - The associated laboratory fortified blank spike (and/or its duplicate) recovery was below method acceptance limits.		
Benzo(a)anthracene	<0.20		No duplicate sample was available for a matrix spike analysis (LFM) for this extraction batch for Method 525.2. The test results on this report relate only to the sample identified on this report. The test results for analytes noted(*) meet all TNI (2009 Standard) requirements.		
Benzo[b]fluoranthene	<0.20				
Benzo[g,h,i]perylene	<0.20				
Benzo[k]fluoranthene	<0.20				
Bromacil	<0.20				
Butachlor	<0.20				
Butylbenzylphthalate	<2.0				
2-Chlorobiphenyl	<0.20				
Chrysene	<0.20				
Dibenz[a,h]anthracene	<0.20				
Di-n-butylphthalate	<2.0				
2,3-Dichlorobiphenyl	<0.20				
Dieldrin	<0.20				
Diethylphthalate	<2.0				

Authorized by Analyst MKABAY on 07/09/2012



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Pesticides by Method 508.1 Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 07/10/2012

Report ID#: 20120710095512AB93300

Lab Sample ID# : AB93300
Sample Priority : NORMAL
TCEQ ID#(s) : 1216226

Water Source :
Entry Point(s) : EP001

Date Collected : 06/19/2012 12:39
Date Received : 06/20/2012
Date Analyzed : 06/28/2012

Conc. Units : ug/L
Method : 508.1 Rev. 2.0
Analyst : FB
Sample Cond. : Acceptable

Regulated Compounds	Result	Qualifier
Chlordane ¹	<0.20	
Endrin ¹	<0.01	
Heptachlor epoxide ¹	<0.02	
Toxaphene ¹	<1.0	

Comments:

No duplicate sample was available for a matrix spike analysis (LFM) for this extraction batch for Method 525.2. The test results on this report relate only to the sample identified on this report. The test results for analytes noted(¹) meet all TNI (2009 Standard) requirements.

Authorized by Analyst MKABAY on 07/09/2012



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*SINGLE METAL Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 06/26/2012
Report ID# : 20120626100856AB93208

Lab Sample ID# : AB93208
Sample Priority : NORMAL
TCEQ ID#(s) : 1230945

Water Source :
Entry Point(s) : EP001

Date Collected : 06/19/2012 12:33
Date Received : 06/20/2012

Sample Cond. : Acceptable

Analyte	Result	Unit	Method	Date/Time Analyzed	Analyst
Acidification	Completed		EPA 200.2	06/20/2012	EB
pH Check	Completed		EPA 200.2	06/21/2012	PG
Turbidity Screen	Completed		SM 2130B	06/21/2012	PG
Visible Particles	Completed			06/21/2012	PG
Sodium ¹	40.0	mg/L	EPA 200.7	06/21/2012	PG

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(¹) meet all TNI (2009 Standard) requirements.

Authorized by Team Lead EBOYER on 06/22/2012



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*RAD-GRAB Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 08/14/2012
Report ID# : 20120814114730AB93212

Lab Sample ID# : AB93212
Sample Priority : NORMAL
TCEQ ID#(s) : 1200726

Water Source :
Entry Point(s) : EP001

Date Collected : 06/19/2012 12:34
Date Received : 06/20/2012

Sample Cond. : Acceptable

Analyte	Result	Uncertainty	MDA	Unit	Yield	Method	Date Analyzed	Analyt
Gross Alpha ¹	<2.0		0.65	pCi/L		EPA 900.0	06/29/2012	BT
Gross Beta ¹	6.8	1.6		pCi/L		EPA 900.0	06/29/2012	BT
Radium-228 ¹	<1.0		0.71	pCi/L	0.796	SM 7500-Ra D	08/01/2012	LJ

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(*) meet all TNI (2009 Standard) requirements.

Authorized by Team Lead JRATHBONE on 08/13/2012



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Trihalomethanes by GC/MS Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 10/11/2012
Report ID# : 20121012103839AC02058

Lab Sample ID# : AC02058
Sample Priority : NORMAL
TCEQ ID#(s) : 1244330

Water Source :
Entry Point(s) : DBP1-01

Date Collected : 09/25/2012 09:58
Date Received : 09/27/2012
Date Analyzed : 09/28/2012

Conc. Units : µg/L
Method : EPA 524.2
Analyst : JO
Sample Cond. : Acceptable

Trihalomethanes	Result	Qualifier
Chloroform	3.7	
Bromodichloromethane	11.8	
Dibromochloromethane	16.2	
Bromoform	13.7	
Total Trihalomethanes ¹	45.4	

Screened Compounds	Result	Qualifier
Vinyl chloride ¹	<0.5	

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(¹) meet all TNI (2009 Standard) requirements.

Authorized by Analyst HHAJIPOUR815 on 10/11/2012



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Haloacetic Acids Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 10/11/2012
Report ID# : 20121012103839AC02091

Lab Sample ID# : AC02091
Sample Priority : NORMAL
TCEQ ID#(s) : 1237461

Water Source :
Entry Point(s) : DBP1-01

Date Collected : 09/25/2012 09:57
Date Received : 09/27/2012
Date Analyzed : 10/06/2012
Extraction Date : 10/01/2012

Conc. Units : µg/L
Method : 552.2 Rev 1.0
Analyst : FB
Sample Cond. : Acceptable

Regulated Compounds	Result	Qualifier
Monochloroacetic acid	<2.0	
Dichloroacetic acid	10.2	
Trichloroacetic acid	1.3	
Monobromoacetic acid	2.4	
Dibromoacetic acid	11.8	
Total HAA5 ¹	25.7	
Monitored Compounds	Result	Qualifier
Bromochloroacetic acid	14.1	
Dalapon	<1.0	

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(¹) meet all TNI (2009 Standard) requirements.

Authorized by Team Lead TDUNN on 10/10/2012



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Volatile Organic Compounds by GC/MS Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
 2250 HIGHWAY 2861
 COMANCHE, TX 76442-5619

Date Reported : 10/02/2012
 Report ID# : 20121002141153AC02112

Lab Sample ID# : AC02112	Water Source :	Date Collected : 09/25/2012 09:27	Conc. Units : µg/L
Sample Priority : NORMAL	Entry Point(s) : EP001	Date Received : 09/27/2012	Method : EPA 524.2
TCEQ ID#(s) : 1228371		Date Analyzed : 09/28/2012	Analyst : A.
			Sample Cond. : Acceptable

Regulated Cmpds.[40 CFR 141.61(a)]	Result	Qualifier	Monitored Cmpds.[40 CFR 141.40(j)]	Result	Qualifier
Benzene ¹	<0.5		1,2,4-Trimethylbenzene	<1.0	
Carbon tetrachloride ¹	<0.5		1,2,3-Trichlorobenzene	<1.0	
Monochlorobenzene ¹	<0.5		n-Propylbenzene	<1.0	
o-Dichlorobenzene ¹	<0.5		n-Butylbenzene	<1.0	
para-Dichlorobenzene ¹	<0.5		Naphthalene	<1.0	
1,2-Dichloroethane ¹	<0.5		Hexachlorobutadiene	<1.0	
1,1-Dichloroethylene ¹	<0.5		1,3,5-Trimethylbenzene	<1.0	
cis-1,2-Dichloroethylene ¹	<0.5		4-Isopropyltoluene	<1.0	
trans-1,2-Dichloroethylene ¹	<0.5		Isopropylbenzene	<1.0	
1,2-Dichloropropane ¹	<0.5		t-Butylbenzene	<1.0	
Dichloromethane ¹	<0.5		s-Butylbenzene	<1.0	
Ethylbenzene ¹	<0.5		Trichlorofluoromethane	<2.0	
Styrene ¹	<0.5		Dichlorodifluoromethane	<2.0	
Tetrachloroethylene ¹	<0.5		Bromochloromethane	<1.0	
Toluene ¹	<0.5				
1,2,4-Trichlorobenzene ¹	<0.5		Other Compounds	Result	Qualifier
1,1,1-Trichloroethane ¹	<0.5		Acetone	<10	
1,1,2-Trichloroethane ¹	<0.5		Acrylonitrile	<10	
Trichloroethylene ¹	<0.5		2-Butanone (MEK)	<10	
Vinyl chloride ¹	<0.5		Carbon disulfide	<1.0	
Xylenes (total) ¹	<0.5		Ethyl methacrylate	<1.0	
			2-Hexanone	<1.0	
Monitored Cmpds.[40 CFR 141.40(e)]	Result	Qualifier	Iodomethane	<2.0	
Chloroform	2.7		Methyl methacrylate	<1.0	
Bromodichloromethane	6.4		4-Methyl-2-pentanone (MIBK)	<2.0	
Dibromochloromethane	7.3		Methyl-t-butyl ether (MTBE)	<2.0	
Bromoform	5.7		Tetrahydrofuran	<5.0	
Dibromomethane	<1.0		Vinyl acetate	<10	
1,3-Dichlorobenzene	<1.0		Comments:		
1,1-Dichloropropene	<1.0				
1,1-Dichloroethane	<1.0				
1,1,2,2-Tetrachloroethane	<1.0				
1,3-Dichloropropane	<1.0				
Chloromethane	<2.0				
Bromomethane	<2.0				
1,2,3-Trichloropropane	<1.0				
1,1,1,2-Tetrachloroethane	<1.0				
Chloroethane	<2.0				
2,2-Dichloropropane	<1.0				
2-Chlorotoluene	<1.0				
4-Chlorotoluene	<1.0				
Bromobenzene	<1.0				
cis-1,3-Dichloropropene	<1.0				
trans-1,3-Dichloropropene	<1.0				

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(1) meet all TNI (2009 Standard) requirements.

Authorized by Analyst DHARDIN on 10/02/2012

Final Analysis Report

LCRA Environmental Laboratory Services

Date: 03-Jan-13

CLIENT: Upper Leon River MWD

Facility: DS01

Lab ID: 1212B68-001

Sample Point: DBP1-01

Project: WS 0470015

Sample Location: CR 436 FOLEYS

Matrix: DRINKING WATER

TCEQ Sample ID: 1245504

Collection Date: 12/20/2012 8:08:00 AM

Analyses	Result	Qual	MCL	LOD	PQL	Units	DF	BatchID	Date Analyzed	
VOLATILES BY GCMS				E524.2			Analyst: SM			
Chloroform	2.8	A		1.0	1.0	µg/L	1	96610	12/31/2012 8:45:00 PM	
Bromodichloromethane	9.5	A		1.0	1.0	µg/L	1	96610	12/31/2012 8:45:00 PM	
Dibromochloromethane	19.6	A		1.0	1.0	µg/L	1	96610	12/31/2012 8:45:00 PM	
Bromoform	20.0	A		1.0	1.0	µg/L	1	96610	12/31/2012 8:45:00 PM	
Total Trihalomethanes	51.9		80	1.0	1.0	µg/L	1	96610	12/31/2012 8:45:00 PM	

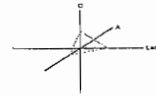
LCRA Environmental Laboratory Services

Date: 03-Jan-13

CLIENT: Upper Leon River MWD
Lab ID: 1212B68-002
Project: WS 0470015
Matrix: DRINKING WATER
Collection Date: 12/20/2012 8:09:00 AM

Facility: DS01
Sample Point: DBP1-01
Sample Location: CR 436 FOLEYS
TCEQ Sample ID: 1238635

Analyses	Result	Qual	MCL	LOD	PQL	Units	DF	BatchID	Date Analyzed
METHYL DERIVATIVES-HALOACETIC ACIDS				E552.2		(E552.2)		Analyst: JR	
Monochloroacetic Acid	2.4	A		2.0	2.0	µg/L	1	96628	1/3/2013 9:49:00 AM
Dichloroacetic acid	8.0	A		1.0	1.0	µg/L	1	96628	1/3/2013 9:49:00 AM
Trichloroacetic acid	3.0	A		1.0	1.0	µg/L	1	96628	1/3/2013 9:49:00 AM
Monobromoacetic Acid	3.0	A		1.0	1.0	µg/L	1	96628	1/3/2013 9:49:00 AM
Dibromoacetic acid	15.4	A		1.0	1.0	µg/L	1	96628	1/3/2013 9:49:00 AM
Total Regulated Haloacetic Acids	31.8		60	1.0	1.0	µg/L	1	96628	1/3/2013 9:49:00 AM
Bromochloroacetic acid	13.5	A		1.0	1.0	µg/L	1	96628	1/3/2013 9:49:00 AM



Transmission Electron Microscopy Report

Analysis Method: Asbestos in Drinking Water by EPA 100.2 Modified

Preparation Method: Samples are filtered on 0.1um polycarbonate filters, carbon coated, and dissolved with chloroform in both jaffe wick and condensate washer (coldfinger). All preps must be verified by another analyst.

Client Information:
Upper Leon River MWD
2250 Highway 2861
Comanche, TX 76442-5619

Client Project:
TCEQ Drinking Water Survey, Upper Leon River
MWD

Water System ID # TX0470015

Turnaround Time: 5 days
Attn: Gyale Pirkle

CA Labs Project #:
CAL121210090CP

Date of Sampling: 12/20/12

Report Date: 2/22/13

Samples Received: 12/21/12 1:00PM

Purchase Order #:

Phone:
Fax:

Sample#	Location - provided by client	Filter Area (mm ²)	Volume Filtered (ml)	Area Analyzed (mm ²)	Asbestos Structures Detected >10um: chrysotile	Asbestos Structures Detected >10um: amphibole	Analytical Sensitivity: (S/L x 10 ⁶)	Concentration of Structures >10um: (S/L x 10 ⁶)
1231524	Comanche Meter Vault	1,064	50	0.1071	NSD	NSD	0.1987	<0.1987

Grid Opening Area: 0.0119 mm ²	Area Analyzed: 0.1071 mm ²	Analytical Sensitivity: 0.1987 MFL
Sample Check -in Time: 12/21/12 1:00PM	Sample Filter Time: 12/21/12 3:20PM	Fibers <10um present (Y/N): N

The upper and lower 95% confidence range is 4.40 to -3.45 MFL for this test method at Crisp Analytical Labs, LLC.

Leslie Crisp
Analyst

NVLAP # 200349-0
EPA # TX 01402
TDH # 30-0235

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Approved Signatories:

Leslie Crisp
General Manager

Chad Lytle
Laboratory Director

Notes:

Some samples (floor tiles, surfacing, etc.) may contain fibers too small too be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case. All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for bulk asbestos fiber analysis (PLM) and airborne fiber analysis (TEM). CA Labs is accredited by the American Industrial Hygiene Association (AIHA LAP, LLC.) in the TEM asbestos field of testing for Industrial Hygiene. This test report relates only to the items tested. Neither NVLAP, AIHA nor EPA accreditation implies endorsement by any US Government agency. This report may not be reproduced except in full without written permission from CA Labs. This method is not covered by the scope of AIHA accreditation for industrial hygiene.

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