



Results

Report To

North Texas Municipal Water D
Mike Rickman
P.O. Box 2408
Wylie, TX 75098

Account
NTM2-N

Project
821601

Results

1669783 Plano #2

Received: 03/16/2018

Drinking Water

Collected by: LMO

Ana-Lab

PO:

Taken: 03/15/2018

Supplement to Test Report 1669489

EPA 524.2 4.1

Prepared: 769057 03/16/2018 10:19:00 Analyzed 769057 03/16/2018 10:19:00 JRH

Parameter	Results	Units	RL	Flag	CAS	Bottle
N Bromodichloromethane	18.4	ug/L	1.00		75-27-4	01
N Bromoform	<1.00	ug/L	1.00		75-25-2	01
N Chloroform	27.9	ug/L	1.00		67-66-3	01
N Dibromochloromethane	7.42	ug/L	1.00		124-48-1	01

EPA 524.2 4.1

Prepared: 769057 03/16/2018 11:28:17 Calculated 769057 03/16/2018 11:28:17 CAL

Parameter	Results	Units	RL	Flag	CAS	Bottle
N Trihalomethanes	0.05372	mg/L	0.001			01

1669784 Forney-Terrell PS

Received: 03/16/2018

Drinking Water

Collected by: LMO

Ana-Lab

PO:

Taken: 03/15/2018

Supplement to Test Report 1669490

EPA 524.2 4.1

Prepared: 769057 03/16/2018 10:42:00 Analyzed 769057 03/16/2018 10:42:00 JRH

Parameter	Results	Units	RL	Flag	CAS	Bottle
N Bromodichloromethane	18.6	ug/L	1.00		75-27-4	01
N Bromoform	<1.00	ug/L	1.00		75-25-2	01
N Chloroform	45.1	ug/L	1.00		67-66-3	01
N Dibromochloromethane	6.87	ug/L	1.00		124-48-1	01

EPA 524.2 4.1

Prepared: 769057 03/16/2018 11:28:17 Calculated 769057 03/16/2018 11:28:17 CAL

Parameter	Results	Units	RL	Flag	CAS	Bottle
N Trihalomethanes	0.07057	mg/L	0.001			01

Sample Preparation





Results

1669783 Plano #2

Received: 03/16/2018

EPA 524.2 4.1

Prepared: 769057 03/16/2018 10:19:00 Analyzed 769057 03/16/2018 10:19:00 JRH

N Trihalomethane Expansion Code

Entered

01

1669784 Forney-Terrell PS

Received: 03/16/2018

EPA 524.2 4.1

Prepared: 769057 03/16/2018 10:42:00 Analyzed 769057 03/16/2018 10:42:00 JRH

N Trihalomethane Expansion Code

Entered

01

Qualifiers:

We report results on an 'As Received' or wet basis unless marked 'Dry Weight'. Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates: Texas Department of Health Lead Firm Certificate 2110076, US Department of Agriculture Soil Import Permit S-37592, Texas Commission on Environmental Quality Drinking Water Laboratory Certificate TX219, Texas Commission on Environmental Quality NELAP T104704201-18, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification #03-070-0, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, US Department of Energy Approved. The Accredited column designates accreditation by N -- NELAC, or z -- not covered under NELAC scope of accreditation.

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of Ana-Lab Corp. Unless otherwise specified, these test results meet the requirements of NELAC.

RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.

Paul Zhang, Ph.D., Quality Director





Results and Limits

Report To

North Texas Municipal Water D
Mike Rickman
P.O. Box 2408
Wylie, TX 75098

*Account***NTM2***Project***821601**

Parameter	Results	Out Results *	Alert	Limit	Units	DL/MRL #	Flag	Out *
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1669783 Plano #2

Collection: 03/15/2018

Supplement to Test Report 1669489

___EPA Drinking Water: column 'Limits' from EPA Drinking Water Limits (40 CFR 141 MCLs -- see <http://water.epa.gov/drink/contaminants/>). Gross Beta Alert Limit is from 40 CFR 141.66 and IS NOT an MCL. EPA recommends secondary standards to water systems but does not require systems to comply. National Primary Drinking Water Regulations (NPDWRs or primary standards) are legally enforceable standards that apply to public water systems. Primary standards protect public health by limiting the levels of contaminants in drinking water.

EPA 524.2 4.1

		Analyzed	769057	3/16/18	10:19:00	JRH
Bromodichloromethane	18.4	80.0 MCL:	ug/L	0.500		
		Primary Standard				
Bromoform	<0.418	80.0 MCL:	ug/L	0.500		
		Primary Standard				
Chloroform	27.9	80.0 MCL:	ug/L	0.500		
		Primary Standard				
Dibromochloromethane	7.42	60.0 MCL:	ug/L	0.500		
		Primary Standard				
Trihalomethanes	0.05372	0.080 MCL:	mg/L	0.0005		
		Primary Standard				

1669784 Forney-Terrell PS

Collection: 03/15/2018

Supplement to Test Report 1669490

___EPA Drinking Water: column 'Limits' from EPA Drinking Water Limits (40 CFR 141 MCLs -- see <http://water.epa.gov/drink/contaminants/>). Gross Beta Alert Limit is from 40 CFR 141.66 and IS NOT an MCL. EPA recommends secondary standards to water systems but does not require systems to comply. National Primary Drinking Water Regulations (NPDWRs or primary standards) are legally enforceable standards that apply to public water systems. Primary standards protect public health by limiting the levels of contaminants in drinking water.

EPA 524.2 4.1

		Analyzed	769057	3/16/18	10:42:00	JRH
Bromodichloromethane	18.6	80.0 MCL:	ug/L	0.500		
		Primary Standard				
Bromoform	<0.418	80.0 MCL:	ug/L	0.500		
		Primary Standard				
Chloroform	45.1	80.0 MCL:	ug/L	0.500		
		Primary Standard				
Dibromochloromethane	6.87	60.0 MCL:	ug/L	0.500		
		Primary Standard				





Results and Limits

Report To

North Texas Municipal Water D
Mike Rickman
P.O. Box 2408
Wylie, TX 75098

Account**NTM2****Project****821601**

Parameter	Results	Out Results *	Alert	Limit	Units	DL/MRL #	Flag	Out *
1669784	Forney-Terrell PS			Collection: 03/15/2018				
Supplement to Test Report 1669490								
EPA Drinking Water: column 'Limits' from EPA Drinking Water Limits (40 CFR 141 MCLs -- see http://water.epa.gov/drink/contaminants/). Gross Beta Alert Limit is from 40 CFR 141.66 and IS NOT an MCL. EPA recommends secondary standards to water systems but does not require systems to comply. National Primary Drinking Water Regulations (NPDWRs or primary standards) are legally enforceable standards that apply to public water systems. Primary standards protect public health by limiting the levels of contaminants in drinking water.								
EPA 524.2 4.1				Analyzed	769057	3/16/18	11:28:17	CAL
Trihalomethanes	0.07057			0.080 MCL:	mg/L	0.0005		
				Primary Standard				

* Out Results are beyond the listed limit. Please verify with your consultant or regulatory authority whether these limits apply to this project.

! Reporting Level above the listed target.

Reporting Level above the listed MRL. DL is Detection Level. MRL is Minimum Reporting Limit. Ana-Lab has demonstrated these report limits in reagent water, but can not document them in all sample matrices.

Qualifiers:

We report results on an 'As Received' or wet basis unless marked 'Dry Weight'. Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates: Texas Department of Health Lead Firm Certificate 2110076, US Department of Agriculture Soil Import Permit S-37592, Texas Commission on Environmental Quality Drinking Water Laboratory Certificate TX219, Texas Commission on Environmental Quality NELAP T104704201-18, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification #03-070-0, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, US Department of Energy Approved. The Accredited column designates accreditation by N -- NELAC, or z -- not covered under NELAC scope of accreditation.

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Paul Zhang, Ph.D., Quality Director





Quality Control

Printed 03/16/2018

Page 1 of 2

Report To

North Texas Municipal Water D
Mike Rickman
P.O. Box 2408
Wylie, TX 75098

DW

Account
NTM2 -NProject
821601Analytical Set **769057**

EPA 524.2 4.1

BFB

<u>Parameter</u>	<u>Sample</u>	<u>RefMass</u>	<u>Reading</u>	<u>%</u>	<u>Limits%</u>	<u>File</u>
BFB Mass 173	769057	174	8	0.5	0 - 2.00	118518599
BFB Mass 174	769057	95.0	1734	52.2	50.0 - 100	118518599
BFB Mass 175	769057	174	109	6.3	5.00 - 9.00	118518599
BFB Mass 176	769057	174	1725	99.5	95.0 - 101	118518599
BFB Mass 177	769057	176	105	6.1	5.00 - 9.00	118518599
BFB Mass 50	769057	95.0	898	27.0	15.0 - 40.0	118518599
BFB Mass 75	769057	95.0	1823	54.8	30.0 - 80.0	118518599
BFB Mass 95	769057	95.0	3324	100.0	100 - 100	118518599
BFB Mass 96	769057	95.0	224	6.7	5.00 - 9.00	118518599

Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Bromodichloromethane	769057	ND	0.308	1.00	ug/L	118518603
Bromoform	769057	ND	0.418	1.00	ug/L	118518603
Chloroform	769057	ND	0.213	1.00	ug/L	118518603
Dibromochloromethane	769057	ND	0.327	1.00	ug/L	118518603

CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Bromodichloromethane	20.7	20.0	ug/L	104	70.0 - 130	118518600
Bromoform	19.7	20.0	ug/L	98.5	70.0 - 130	118518600
Chloroform	20.9	20.0	ug/L	104	70.0 - 130	118518600
Dibromochloromethane	19.8	20.0	ug/L	99.0	70.0 - 130	118518600

IS Areas

<u>Parameter</u>	<u>Sample</u>	<u>Type</u>	<u>Reading</u>	<u>CCVISM</u>	<u>Low</u>	<u>High</u>	<u>File</u>	<u>PrepSet</u>
1,4-DichlorobenzeneD4 (ISTD)	769057	CCV	39120	39120	19560	58680	118518600	769057
	769057	LCS	37360	39120	19560	58680	118518601	769057
	769057	LCS Dup	37460	39120	19560	58680	118518602	769057
	769057	Blank	33120	39120	19560	58680	118518603	769057
ChlorobenzeneD5 (ISTD)	769057	CCV	82820	82820	41410	124200	118518600	769057
	769057	LCS	78010	82820	41410	124200	118518601	769057
	769057	LCS Dup	78890	82820	41410	124200	118518602	769057
	769057	Blank	75300	82820	41410	124200	118518603	769057

IS RetTime

<u>Parameter</u>	<u>Sample</u>	<u>Type</u>	<u>Reading</u>	<u>CCVISM</u>	<u>Low</u>	<u>High</u>	<u>File</u>	<u>PrepSet</u>
1,4-DichlorobenzeneD4 (ISTD)	769057	CCV	11.18	11.18	11.12	11.24	118518600	769057
	769057	LCS	11.18	11.18	11.12	11.24	118518601	769057
	769057	LCS Dup	11.18	11.18	11.12	11.24	118518602	769057
	769057	Blank	11.18	11.18	11.12	11.24	118518603	769057
ChlorobenzeneD5 (ISTD)	769057	CCV	8.830	8.830	8.770	8.890	118518600	769057





Quality Control

Printed 03/16/2018

Page 2 of 2

IS RetTime

<u>Parameter</u>	<u>Sample</u>	<u>Type</u>	<u>Reading</u>	<u>CCVISM</u>	<u>Low</u>	<u>High</u>	<u>File</u>	<u>PrepSet</u>
ChlorobenzeneD5 (ISTD)	769057	LCS	8.830	8.830	8.770	8.890	118518601	769057
	769057	LCS Dup	8.830	8.830	8.770	8.890	118518602	769057
	769057	Blank	8.830	8.830	8.770	8.890	118518603	769057

LCS Dup

<u>Parameter</u>	<u>PrepSet</u>	<u>LCS</u>	<u>LCSD</u>	<u>Known</u>	<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Bromodichloromethane	769057	22.1	20.6	20.0	70.0 - 130	110	103	ug/L	6.57	30.0
Bromoform	769057	21.1	20.2	20.0	70.0 - 130	106	101	ug/L	4.83	30.0
Chloroform	769057	20.9	20.3	20.0	70.0 - 130	104	102	ug/L	1.94	30.0
Dibromochloromethane	769057	20.2	19.1	20.0	70.0 - 130	101	95.5	ug/L	5.60	30.0

Surrogate

<u>Parameter</u>	<u>Sample</u>	<u>Type</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
1,2-DCA-d4 (SURR)	769057	CCV	21.4	20.0	ug/L	107	70.0 - 130	118518600
	769057	LCS	21.0	20.0	ug/L	105	70.0 - 130	118518601
	769057	LCS Dup	20.7	20.0	ug/L	104	70.0 - 130	118518602
	769057	Blank	20.9	20.0	ug/L	104	70.0 - 130	118518603
Bromofluorobenzene (SURR)	769057	CCV	21.5	20.0	ug/L	108	70.0 - 130	118518600
	769057	LCS	21.3	20.0	ug/L	106	70.0 - 130	118518601
	769057	LCS Dup	21.5	20.0	ug/L	108	70.0 - 130	118518602
	769057	Blank	21.2	20.0	ug/L	106	70.0 - 130	118518603
Dibromofluoromethane (SURR)	769057	CCV	20.1	20.0	ug/L	100	70.0 - 130	118518600
	769057	LCS	20.6	20.0	ug/L	103	70.0 - 130	118518601
	769057	LCS Dup	20.3	20.0	ug/L	102	70.0 - 130	118518602
	769057	Blank	19.6	20.0	ug/L	98.0	70.0 - 130	118518603
TolueneD8 (SURR)	769057	CCV	20.4	20.0	ug/L	102	70.0 - 130	118518600
	769057	LCS	20.0	20.0	ug/L	100	70.0 - 130	118518601
	769057	LCS Dup	19.8	20.0	ug/L	99.0	70.0 - 130	118518602
	769057	Blank	19.9	20.0	ug/L	99.5	70.0 - 130	118518603

* Out RPD is Relative Percent Difference: $\text{abs}(r1-r2) / \text{mean}(r1,r2) * 100\%$ Recover% is Recovery Percent: $\text{result} / \text{known} * 100\%$

Blank - Method Blank; CCV - Continuing Calibration Verification; BFB - GC/MS Tuning Compound

