



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	3/16/2017 12:00:00 AM
Project:	LB86680	Date Received:	3/16/2017 12:00:00 AM
Client Sample ID:	LOD-WATER-05-QT2-2017	SDG No.:	LB86680
Lab Sample ID:	I2296-05	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0.34	J	1	0.066		0.5	mg/L		04/05/2017	9056
	Chloride	0.071	U	1	0.075		0.15	mg/L		04/05/2017	9056
	Fluoride	0.07	J	1	0.043		0.1	mg/L		04/05/2017	9056
	Nitrate	0.094	J	1	0.027		0.11	mg/L		04/05/2017	9056
	Nitrite	0.12	J	1	0.022		0.15	mg/L		04/05/2017	9056
	Phosphorus, Ortho	-0.46	U	1	0.01		0.24	mg/L		04/05/2017	9056
	Sulfate	0.75		1	0.13		0.75	mg/L		04/05/2017	9056



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Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits



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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86680

SDG No.: LB86680

Contract: _____ Lab Code: CHEM

Case No.: LB86680

SAS No.: LB86680

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Bromide	9.5	10	95	0	90 - 110		04/05/2017	02:49	LB86680
	Chloride	2.8	3	93.3	0	90 - 110		04/05/2017	02:49	LB86680
	Fluoride	1.9	2	95	0	90 - 110		04/05/2017	02:49	LB86680
	Phosphorus, Ortho	5	5	100	0	90 - 110		04/05/2017	02:49	LB86680
	Nitrite	2.9	3	96.7	0	90 - 110		04/05/2017	02:49	LB86680
	Nitrate	2.4	2.5	96	0	90 - 110		04/05/2017	02:49	LB86680
	Sulfate	14.1	15	94	0	90 - 110		04/05/2017	02:49	LB86680



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86680

SDG No.: LB86680

Contract: Lab Code: CHEM

Case No.: LB86680

SAS No.: LB86680

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Bromide	0.066	+/-0.5	U		0.5		04/05/2017	03:20	LB86680
	Chloride	0.075	+/-0.15	U		0.15		04/05/2017	03:20	LB86680
	Fluoride	0.043	+/-0.1	U		0.1		04/05/2017	03:20	LB86680
	Phosphorus, Ortho	0.01	+/-0.24	U		0.24		04/05/2017	03:20	LB86680
	Nitrite	0.022	+/-0.15	U		0.15		04/05/2017	03:20	LB86680
	Nitrate	0.027	+/-0.11	U		0.11		04/05/2017	03:20	LB86680
	Sulfate	0.13	+/-0.75	U		0.75		04/05/2017	03:20	LB86680

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Bromide	0.066	+/-0.5	U		0.5		04/05/2017	06:23	LB86680
	Chloride	0.075	+/-0.15	U		0.15		04/05/2017	06:23	LB86680
	Fluoride	0.043	+/-0.1	U		0.1		04/05/2017	06:23	LB86680
	Phosphorus, Ortho	0.01	+/-0.24	U		0.24		04/05/2017	06:23	LB86680
	Nitrite	0.022	+/-0.15	U		0.15		04/05/2017	06:23	LB86680
	Nitrate	0.027	+/-0.11	U		0.11		04/05/2017	06:23	LB86680
	Sulfate	0.13	+/-0.75	U		0.75		04/05/2017	06:23	LB86680
CCB2	Bromide	0.066	+/-0.5	U		0.5		04/05/2017	09:26	LB86680
	Chloride	0.075	+/-0.15	U		0.15		04/05/2017	09:26	LB86680
	Fluoride	0.043	+/-0.1	U		0.1		04/05/2017	09:26	LB86680
	Phosphorus, Ortho	0.01	+/-0.24	U		0.24		04/05/2017	09:26	LB86680
	Nitrite	0.022	+/-0.15	U		0.15		04/05/2017	09:26	LB86680
	Nitrate	0.027	+/-0.11	U		0.11		04/05/2017	09:26	LB86680
	Sulfate	0.13	+/-0.75	U		0.75		04/05/2017	09:26	LB86680



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86680

SDG No.: LB86680

Contract: Lab Code: CHEM

Case No.: LB86680

SAS No.: LB86680

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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PREPARATION BLANK SUMMARY

Client: LB86680

SDG No.: LB86680

Instrument: IC Metrohm

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB86680BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		04/05/2017	06:53	LB86680
	Chloride	0.075	<0.15	U		0.15		04/05/2017	06:53	LB86680
	Fluoride	0.043	<0.1	U		0.1		04/05/2017	06:53	LB86680
	Phosphorus, Ortho	0.01	<0.24	U		0.24		04/05/2017	06:53	LB86680
	Nitrite	0.022	<0.15	U		0.15		04/05/2017	06:53	LB86680
	Nitrate	0.027	<0.11	U		0.11		04/05/2017	06:53	LB86680
	Sulfate	0.13	<0.75	U		0.75		04/05/2017	06:53	LB86680



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86680

SDG No.: LB86680

Contract:

Lab Code: CHEM

Case No.: LB86680

SAS No.: LB86680

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
I2296-06							
Bromide	mg/L	1	1.2		120	50 - 150	
Chloride	mg/L	0.3	0.35		116.7	50 - 150	
Fluoride	mg/L	0.2	0.25		125	50 - 150	
Phosphorus, Ortho	mg/L	0.48	0.52		108.3	50 - 150	
Nitrite	mg/L	0.3	0.37		123.3	50 - 150	
Nitrate	mg/L	0.23	0.3		130.4	50 - 150	
Sulfate	mg/L	1.5	1.9		126.7	50 - 150	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86680

SDG No.: LB86680

Contract:

Lab Code: CHEM

Case No.: LB86680

SAS No.: LB86680

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB86680BSW							
Bromide	mg/L	10	9.5		95	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Fluoride	mg/L	2	1.9		95	90 - 110	
Phosphorus, Ortho	mg/L	5	5.1		102	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	
Nitrate	mg/L	2.5	2.4		96	90 - 110	
Sulfate	mg/L	15	14.1		94	90 - 110	

Daily Analysis Runlog For Sequence/QC Batch ID # LB86680

Review By		Review On				
SubDirectory		LB86680		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP54011,WP54014,WP54015,WP54016,WP54017,WP54018,WP54019				
ICV Standard		WP54020				
CCV Standard		WP54016				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54020				
Chk Standard		WP53780,WP53781				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	04/04/17 22:15		OK
2	STD2	STD2	CAL2	04/04/17 22:46		OK
3	STD3	STD3	CAL3	04/04/17 23:16		OK
4	STD4	STD4	CAL4	04/04/17 23:47		OK
5	STD5	STD5	CAL5	04/05/17 00:17		OK
6	STD6	STD6	CAL6	04/05/17 00:48		OK
7	STD7	STD7	CAL7	04/05/17 01:18		OK
8	ICV1	ICV1	ICV	04/05/17 02:49		OK
9	ICB1	ICB1	ICB	04/05/17 03:20		OK
10	CCV1	CCV1	CCV	04/05/17 05:52		OK
11	CCB1	CCB1	CCB	04/05/17 06:23		OK
12	LB86680BLW	LB86680BLW	MB	04/05/17 06:53		OK
13	LB86680BSW	LB86680BSW	LCS	04/05/17 07:24		OK
14	I2296-05	LOD-WATER-05-QT2	SAM	04/05/17 07:54		OK
15	I2296-06	LOQ-WATER-06-QT2	LOQ	04/05/17 08:25		OK
16	CCV2	CCV2	CCV	04/05/17 08:55		OK
17	CCB2	CCB2	CCB	04/05/17 09:26		OK