



GENCHEM

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86676

SDG No.: LB86676

Contract: _____ Lab Code: CHEM

Case No.: LB86676

SAS No.: LB86676

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	24	25	96	0	90 - 110		03/16/2017	19:13	LB86676
	Chloride	7.1	7.5	94.7	0	90 - 110		03/16/2017	19:13	LB86676
	Fluoride	4.9	5	98	0	90 - 110		03/16/2017	19:13	LB86676
	Phosphorus, Ortho	12.5	12.5	100	0	90 - 110		03/16/2017	19:13	LB86676
	Nitrite	7.4	7.5	98.7	0	90 - 110		03/16/2017	19:13	LB86676
	Nitrate	6	6.25	96	0	90 - 110		03/16/2017	19:13	LB86676
	Sulfate	35.2	37.5	93.9	0	90 - 110		03/16/2017	19:13	LB86676



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86676

SDG No.: LB86676

Contract: _____ **Lab Code:** CHEM

Case No.: LB86676

SAS No.: LB86676

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		03/16/2017	19:44	LB86676
	Chloride	0.075	+/-0.15	U		0.15		03/16/2017	19:44	LB86676
	Fluoride	0.043	+/-0.1	U		0.1		03/16/2017	19:44	LB86676
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/16/2017	19:44	LB86676
	Nitrite	0.022	+/-0.15	U		0.15		03/16/2017	19:44	LB86676
	Nitrate	0.027	+/-0.13	U		0.13		03/16/2017	19:44	LB86676
	Sulfate	0.13	+/-0.75	U		0.75		03/16/2017	19:44	LB86676



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86676

SDG No.: LB86676

Contract:

Lab Code: CHEM

Case No.: LB86676

SAS No.: LB86676

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		04/03/2017	12:57	LB86676
	Chloride	0.075	+/-0.15	U		0.15		04/03/2017	12:57	LB86676
	Fluoride	0.043	+/-0.1	U		0.1		04/03/2017	12:57	LB86676
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/03/2017	12:57	LB86676
	Nitrite	0.022	+/-0.15	U		0.15		04/03/2017	12:57	LB86676
	Nitrate	0.027	+/-0.13	U		0.13		04/03/2017	12:57	LB86676
	Sulfate	0.13	+/-0.75	U		0.75		04/03/2017	12:57	LB86676
CCB2	Bromide	0.066	+/-0.5	U		0.5		04/03/2017	17:05	LB86676
	Chloride	0.075	+/-0.15	U		0.15		04/03/2017	17:05	LB86676
	Fluoride	0.043	+/-0.1	U		0.1		04/03/2017	17:05	LB86676
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/03/2017	17:05	LB86676
	Nitrite	0.022	+/-0.15	U		0.15		04/03/2017	17:05	LB86676
	Nitrate	0.027	+/-0.13	U		0.13		04/03/2017	17:05	LB86676
	Sulfate	0.13	+/-0.75	U		0.75		04/03/2017	17:05	LB86676



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86676

SDG No.: LB86676

Contract: Lab Code: CHEM

Case No.: LB86676

SAS No.: LB86676

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	4/3/2017 12:00:00 AM
Project:	LB86676	Date Received:	4/3/2017 12:00:00 AM
Client Sample ID:	2AVE-03	SDG No.:	LB86676
Lab Sample ID:	I2518-01	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	2.2		1	0.066		0.5	mg/L		04/03/2017	300.0
	Chloride	131	OR	1	0.075		0.15	mg/L		04/03/2017	300.0
	Fluoride	0.53		1	0.043		0.1	mg/L		04/03/2017	300.0
	Nitrate	0.49		1	0.027		0.13	mg/L		04/03/2017	300.0
	Nitrite	0.37		1	0.022		0.15	mg/L		04/03/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/03/2017	300.0
	Sulfate	120	OR	1	0.13		0.75	mg/L		04/03/2017	300.0



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Report of Analysis

Client:		Date Collected:	4/3/2017 12:00:00 AM
Project:	LB86676	Date Received:	4/3/2017 12:00:00 AM
Client Sample ID:	2AVE-03	SDG No.:	LB86676
Lab Sample ID:	I2518-01	Matrix:	WATER
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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PREPARATION BLANK SUMMARY

Client: LB86676

SDG No.: LB86676

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
LB86676BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		04/03/2017	13:27	LB86676
	Chloride	0.075	<0.15	U		0.15		04/03/2017	13:27	LB86676
	Fluoride	0.043	<0.1	U		0.1		04/03/2017	13:27	LB86676
	Phosphorus, Ortho	0.01	<0.25	U		0.25		04/03/2017	13:27	LB86676
	Nitrite	0.022	<0.15	U		0.15		04/03/2017	13:27	LB86676
	Nitrate	0.027	<0.13	U		0.13		04/03/2017	13:27	LB86676
	Sulfate	0.13	<0.75	U		0.75		04/03/2017	13:27	LB86676



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MATRIX SPIKE SUMMARY

client: LB86676 level: low sdg no.: LB86676
contract: _____ lab code: CHEM case no.: LB86676 sas no.: LB86676
matrix: WATER sample id: I2518-01 client id: 2AVE-03MS
Percent Solids for Sample: 0 Spiked ID: I2518-01MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Bromide	mg/L	80 - 120	25.8		2.2		25	94		
Chloride	mg/L	80 - 120	112	OR	131	OR	7.5	-253	*	
Fluoride	mg/L	80 - 120	5.5		0.53		5	99		
Phosphorus, Ortho	mg/L	80 - 120	15		0.01	U	12.5	120		
Nitrite	mg/L	80 - 120	7.6		0.37		7.5	96		
Nitrate	mg/L	80 - 120	6.4		0.49		6.25	95		
Sulfate	mg/L	80 - 120	124	OR	120	OR	37.5	11	*	

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DUPLICATE SAMPLE SUMMARY

Client:	<u>LB86676</u>	Level:	<u>LOW</u>	SDG No.:	<u>LB86676</u>
Contract:	<u></u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>LB86676</u>
Matrix:	<u>WATER</u>	Sample ID:	<u>I2518-01</u>	Client ID:	<u>2AVE-03DUP</u>
Percent Solids for Sample:	0	Duplicate ID	I2518-01DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance	Sample	Duplicate		RPD	Qual	M
		Limit	Result	C	Result			
Bromide	mg/L	20	2.2		2.2		0	
Chloride	mg/L	20	131	OR	131	OR	0	
Fluoride	mg/L	20	0.53		0.55		4	
Phosphorus, Ortho	mg/L	20	0.01	U	0	U		
Nitrite	mg/L	20	0.37		0.38		3	
Nitrate	mg/L	20	0.49		0.49		0	
Sulfate	mg/L	20	120	OR	120	OR	0	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86676

SDG No.: LB86676

Contract:

Lab Code: CHEM

Case No.: LB86676

SAS No.: LB86676

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB86676BSW							
Bromide	mg/L	25	24.4		97.6	90 - 110	
Chloride	mg/L	7.5	7.3		97.3	90 - 110	
Fluoride	mg/L	5	5.2		104	90 - 110	
Phosphorus, Ortho	mg/L	12.5	13.8		110.4	90 - 110	
Nitrite	mg/L	7.5	7.4		98.7	90 - 110	
Nitrate	mg/L	6.25	6.1		97.6	90 - 110	
Sulfate	mg/L	37.5	36.6		97.6	90 - 110	
