



GENCHEM

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86622

SDG No.: LB86622

Contract: _____ Lab Code: CHEM

Case No.: LB86622

SAS No.: LB86622

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	LB86622
	Chloride	7.1	7.5	94.7	0	90 - 110		03/16/2017	19:13	LB86622
	Fluoride	4.9	5	98	0	90 - 110		03/16/2017	19:13	LB86622
	Phosphorus, Ortho	12.5	12.5	100	0	90 - 110		03/16/2017	19:13	LB86622
	Nitrite	7.4	7.5	98.7	0	90 - 110		03/16/2017	19:13	LB86622
	Nitrate	6	6.25	96	0	90 - 110		03/16/2017	19:13	LB86622
	Sulfate	35.2	37.5	93.9	0	90 - 110		03/16/2017	19:13	LB86622

Sample ID	Analyte	Result	True Value	%	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
CCV1	Bromide	24.3	25	97.2	0	90 - 110		03/29/2017	15:25	LB86622
	Chloride	7.3	7.5	97.3	0	90 - 110		03/29/2017	15:25	LB86622
	Fluoride	5.1	5	102	0	90 - 110		03/29/2017	15:25	LB86622
	Phosphorus, Ortho	13.4	12.5	107.2	0	90 - 110		03/29/2017	15:25	LB86622
	Nitrite	7.5	7.5	100	0	90 - 110		03/29/2017	15:25	LB86622
	Nitrate	6.1	6.25	97.6	0	90 - 110		03/29/2017	15:25	LB86622
	Sulfate	36.3	37.5	96.8	0	90 - 110		03/29/2017	15:25	LB86622
CCV2	Bromide	24.3	25	97.2	0	90 - 110		03/29/2017	19:05	LB86622
	Chloride	7.3	7.5	97.3	0	90 - 110		03/29/2017	19:05	LB86622
	Fluoride	5.2	5	104	0	90 - 110		03/29/2017	19:05	LB86622
	Phosphorus, Ortho	13.1	12.5	104.8	0	90 - 110		03/29/2017	19:05	LB86622
	Nitrite	7.5	7.5	100	0	90 - 110		03/29/2017	19:05	LB86622
	Nitrate	6	6.25	96	0	90 - 110		03/29/2017	19:05	LB86622
	Sulfate	36	37.5	96	0	90 - 110		03/29/2017	19:05	LB86622



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86622

SDG No.: LB86622

Contract: Lab Code: CHEM

Case No.: LB86622

SAS No.: LB86622

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	LB86622
	Chloride	0.075	+/-0.15	U		0.15		03/16/2017	19:44	LB86622
	Fluoride	0.043	+/-0.1	U		0.1		03/16/2017	19:44	LB86622
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/16/2017	19:44	LB86622
	Nitrite	0.022	+/-0.15	U		0.15		03/16/2017	19:44	LB86622
	Nitrate	0.027	+/-0.13	U		0.13		03/16/2017	19:44	LB86622
	Sulfate	0.13	+/-0.75	U		0.75		03/16/2017	19:44	LB86622

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		03/29/2017	16:02	LB86622
	Chloride	0.075	+/-0.15	U		0.15		03/29/2017	16:02	LB86622
	Fluoride	0.043	+/-0.1	U		0.1		03/29/2017	16:02	LB86622
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/29/2017	16:02	LB86622
	Nitrite	0.022	+/-0.15	U		0.15		03/29/2017	16:02	LB86622
	Nitrate	0.027	+/-0.13	U		0.13		03/29/2017	16:02	LB86622
	Sulfate	0.13	+/-0.75	U		0.75		03/29/2017	16:02	LB86622
CCB2	Bromide	0.066	+/-0.5	U		0.5		03/29/2017	19:36	LB86622
	Chloride	0.075	+/-0.15	U		0.15		03/29/2017	19:36	LB86622
	Fluoride	0.043	+/-0.1	U		0.1		03/29/2017	19:36	LB86622
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/29/2017	19:36	LB86622
	Nitrite	0.022	+/-0.15	U		0.15		03/29/2017	19:36	LB86622
	Nitrate	0.027	+/-0.13	U		0.13		03/29/2017	19:36	LB86622
	Sulfate	0.13	+/-0.75	U		0.75		03/29/2017	19:36	LB86622



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86622

SDG No.: LB86622

Contract: Lab Code: CHEM

Case No.: LB86622

SAS No.: LB86622

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:	3/28/2017 12:00:00 AM
Project:	LB86622	Date Received:	3/29/2017 12:00:00 AM
Client Sample ID:	POOLWATER	SDG No.:	LB86622
Lab Sample ID:	I2449-01	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	0	U	1	0.066		0.5	mg/L		03/29/2017	300.0
	Chloride	0.56		1	0.075		0.15	mg/L		03/29/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		03/29/2017	300.0
	Nitrate	0.39		1	0.027		0.13	mg/L		03/29/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		03/29/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		03/29/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		03/29/2017	300.0



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Report of Analysis

Client:		Date Collected:	3/28/2017 12:00:00 AM
Project:	LB86622	Date Received:	3/29/2017 12:00:00 AM
Client Sample ID:	POOLWATER	SDG No.:	LB86622
Lab Sample ID:	I2449-01	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: LB86622

SDG No.: LB86622

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
LB86622BLW		WATER		Batch Number:			Prep Date:			
	Bromide	0.066	<0.5	U		0.5		03/29/2017	16:33	LB86622
	Chloride	0.075	<0.15	U		0.15		03/29/2017	16:33	LB86622
	Fluoride	0.043	<0.1	U		0.1		03/29/2017	16:33	LB86622
	Phosphorus, Ortho	0.01	<0.25	U		0.25		03/29/2017	16:33	LB86622
	Nitrite	0.022	<0.15	U		0.15		03/29/2017	16:33	LB86622
	Nitrate	0.027	<0.13	U		0.13		03/29/2017	16:33	LB86622
	Sulfate	0.13	<0.75	U		0.75		03/29/2017	16:33	LB86622



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MATRIX SPIKE SUMMARY

client: LB86622 level: low sdg no.: LB86622
contract: _____ lab code: CHEM case no.: LB86622 sas no.: LB86622
matrix: WATER sample id: I2449-01 client id: POOLWATERMS
Percent Solids for Sample: 0 Spiked ID: I2449-01MS 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	24.4		0.066	U	25	97.6		
Chloride	mg/L	80 - 120	7.6		0.56		7.5	94		
Fluoride	mg/L	80 - 120	4.9		0.043	U	5	98		
Phosphorus, Ortho	mg/L	80 - 120	13.2		0.01	U	12.5	105.6		
Nitrite	mg/L	80 - 120	7.5		0.022	U	7.5	100		
Nitrate	mg/L	80 - 120	6.2		0.39		6.25	93		
Sulfate	mg/L	80 - 120	37.9		0.13	U	37.5	101.1		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86622

SDG No.: LB86622

Contract:

Lab Code: CHEM

Case No.: LB86622

SAS No.: LB86622

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB86622BSW							
Bromide	mg/L	25	23.9		95.6	90 - 110	
Chloride	mg/L	7.5	7.2		96	90 - 110	
Fluoride	mg/L	5	4.9		98	90 - 110	
Phosphorus, Ortho	mg/L	12.5	12.5		100	90 - 110	
Nitrite	mg/L	7.5	7.4		98.7	90 - 110	
Nitrate	mg/L	6.25	6		96	90 - 110	
Sulfate	mg/L	37.5	35.8		95.5	90 - 110	
