



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86774

SDG No.: LB86774

Contract: _____ Lab Code: CHEM

Case No.: LB86774

SAS No.: LB86774

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	10.1	10	101	0	90 - 110		04/07/2017	18:26	LB86774
	Chloride	2.9	3	96.7	0	90 - 110		04/07/2017	18:26	LB86774
	Fluoride	2.1	2	105	0	90 - 110		04/07/2017	18:26	LB86774
	Phosphorus, Ortho	5.3	5	106	0	90 - 110		04/07/2017	18:26	LB86774
	Nitrite	3	3	100	0	90 - 110		04/07/2017	18:26	LB86774
	Nitrate	2.4	2.5	96	0	90 - 110		04/07/2017	18:26	LB86774
	Sulfate	14.7	15	98	0	90 - 110		04/07/2017	18:26	LB86774



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SAS No.: LB86774

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
CCV1	Bromide	9.9	10	99	0	90 - 110		04/07/2017	21:32	LB86774
	Chloride	2.9	3	96.7	0	90 - 110		04/07/2017	21:32	LB86774
	Fluoride	2.1	2	105	0	90 - 110		04/07/2017	21:32	LB86774
	Phosphorus, Ortho	5.3	5	106	0	90 - 110		04/07/2017	21:32	LB86774
	Nitrite	2.9	3	96.7	0	90 - 110		04/07/2017	21:32	LB86774
	Nitrate	2.4	2.5	96	0	90 - 110		04/07/2017	21:32	LB86774
	Sulfate	14.7	15	98	0	90 - 110		04/07/2017	21:32	LB86774
CCV2	Bromide	10	10	100	0	90 - 110		04/08/2017	00:37	LB86774
	Chloride	2.9	3	96.7	0	90 - 110		04/08/2017	00:37	LB86774
	Fluoride	2.1	2	105	0	90 - 110		04/08/2017	00:37	LB86774
	Phosphorus, Ortho	5.3	5	106	0	90 - 110		04/08/2017	00:37	LB86774
	Nitrite	2.9	3	96.7	0	90 - 110		04/08/2017	00:37	LB86774
	Nitrate	2.4	2.5	96	0	90 - 110		04/08/2017	00:37	LB86774
	Sulfate	14.6	15	97.3	0	90 - 110		04/08/2017	00:37	LB86774



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86774

SDG No.: LB86774

Contract: Lab Code: CHEM

Case No.: LB86774

SAS No.: LB86774

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		04/07/2017	18:57	LB86774
	Chloride	0.075	+/-0.15	U		0.15		04/07/2017	18:57	LB86774
	Fluoride	0.043	+/-0.1	U		0.1		04/07/2017	18:57	LB86774
	Phosphorus, Ortho	0.01	+/-0.24	U		0.24		04/07/2017	18:57	LB86774
	Nitrite	0.022	+/-0.15	U		0.15		04/07/2017	18:57	LB86774
	Nitrate	0.027	+/-0.11	U		0.11		04/07/2017	18:57	LB86774
	Sulfate	0.13	+/-0.75	U		0.75		04/07/2017	18:57	LB86774

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		04/07/2017	22:02	LB86774
	Chloride	0.075	+/-0.15	U		0.15		04/07/2017	22:02	LB86774
	Fluoride	0.043	+/-0.1	U		0.1		04/07/2017	22:02	LB86774
	Phosphorus, Ortho	0.01	+/-0.24	U		0.24		04/07/2017	22:02	LB86774
	Nitrite	0.022	+/-0.15	U		0.15		04/07/2017	22:02	LB86774
	Nitrate	0.027	+/-0.11	U		0.11		04/07/2017	22:02	LB86774
	Sulfate	0.13	+/-0.75	U		0.75		04/07/2017	22:02	LB86774
CCB2	Bromide	0.066	+/-0.5	U		0.5		04/08/2017	01:08	LB86774
	Chloride	0.075	+/-0.15	U		0.15		04/08/2017	01:08	LB86774
	Fluoride	0.043	+/-0.1	U		0.1		04/08/2017	01:08	LB86774
	Phosphorus, Ortho	0.01	+/-0.24	U		0.24		04/08/2017	01:08	LB86774
	Nitrite	0.022	+/-0.15	U		0.15		04/08/2017	01:08	LB86774
	Nitrate	0.027	+/-0.11	U		0.11		04/08/2017	01:08	LB86774
	Sulfate	0.13	+/-0.75	U		0.75		04/08/2017	01:08	LB86774



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86774

SDG No.: LB86774

Contract: Lab Code: CHEM

Case No.: LB86774

SAS No.: LB86774

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:	3/16/2017 12:00:00 AM
Project:	LB86774	Date Received:	3/16/2017 12:00:00 AM
Client Sample ID:	LOD-WATER-05-QT2-2017	SDG No.:	LB86774
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	0.33	J	1	0.066		0.5	mg/L		04/07/2017	9056
	Chloride	0.11	J	1	0.075		0.15	mg/L		04/07/2017	9056
	Fluoride	0.08	J	1	0.043		0.1	mg/L		04/07/2017	9056
	Nitrate	0.11		1	0.027		0.11	mg/L		04/07/2017	9056
	Nitrite	0.14	J	1	0.022		0.15	mg/L		04/07/2017	9056
	Phosphorus, Ortho	-0.079	U	1	0.01		0.24	mg/L		04/07/2017	9056
	Sulfate	0.58	J	1	0.13		0.75	mg/L		04/07/2017	9056



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:	LB86774	Date Received:	3/16/2017 12:00:00 AM
Client Sample ID:	LOD-WATER-05-QT2-2017	SDG No.:	LB86774
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.
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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



GENCHEM
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PREPARATION BLANK SUMMARY

Client: LB86774

SDG No.: LB86774

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
LB86774BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		04/07/2017	22:33	LB86774
	Chloride	0.075	<0.15	U		0.15		04/07/2017	22:33	LB86774
	Fluoride	0.043	<0.1	U		0.1		04/07/2017	22:33	LB86774
	Phosphorus, Ortho	0.01	<0.24	U		0.24		04/07/2017	22:33	LB86774
	Nitrite	0.022	<0.15	U		0.15		04/07/2017	22:33	LB86774
	Nitrate	0.027	<0.11	U		0.11		04/07/2017	22:33	LB86774
	Sulfate	0.13	<0.75	U		0.75		04/07/2017	22:33	LB86774



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86774

SDG No.: LB86774

Contract:

Lab Code: CHEM

Case No.: LB86774

SAS No.: LB86774

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	0.37		123.3	50 - 150	
Fluoride	mg/L	0.2	0.24		120	50 - 150	
Phosphorus, Ortho	mg/L	0.48	0.45		93.8	50 - 150	
Nitrite	mg/L	0.3	0.37		123.3	50 - 150	
Nitrate	mg/L	0.23	0.32		139.1	50 - 150	
Sulfate	mg/L	1.5	1.9		126.7	50 - 150	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86774

SDG No.: LB86774

Contract:

Lab Code: CHEM

Case No.: LB86774

SAS No.: LB86774

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB86774BSW							
Bromide	mg/L	10	10.1		101	90 - 110	
Chloride	mg/L	3	3		100	90 - 110	
Fluoride	mg/L	2	2.1		105	90 - 110	
Phosphorus, Ortho	mg/L	5	5.4		108	90 - 110	
Nitrite	mg/L	3	3		100	90 - 110	
Nitrate	mg/L	2.5	2.5		100	90 - 110	
Sulfate	mg/L	15	14.8		98.7	90 - 110	
