



GENCHEM

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87069

SDG No.: LB87069

Contract: _____ Lab Code: CHEM

Case No.: LB87069

SAS No.: LB87069

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	LB87069
	Chloride	2.8	3	93.3	0	90 - 110		04/05/2017	02:49	LB87069
	Fluoride	1.9	2	95	0	90 - 110		04/05/2017	02:49	LB87069
	Phosphorus, Ortho	5	5	100	0	90 - 110		04/05/2017	02:49	LB87069
	Nitrite	2.9	3	96.7	0	90 - 110		04/05/2017	02:49	LB87069
	Nitrate	2.4	2.5	96	0	90 - 110		04/05/2017	02:49	LB87069
	Sulfate	14.1	15	94	0	90 - 110		04/05/2017	02:49	LB87069



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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	10.1	10	101	0	90 - 110		04/26/2017	14:59	LB87069
	Chloride	3	3	100	0	90 - 110		04/26/2017	14:59	LB87069
	Fluoride	2.1	2	105	0	90 - 110		04/26/2017	14:59	LB87069
	Phosphorus, Ortho	4.9	5	98	0	90 - 110		04/26/2017	14:59	LB87069
	Nitrite	3	3	100	0	90 - 110		04/26/2017	14:59	LB87069
	Nitrate	2.5	2.5	100	0	90 - 110		04/26/2017	14:59	LB87069
	Sulfate	14.7	15	98	0	90 - 110		04/26/2017	14:59	LB87069
CCV2	Bromide	10.1	10	101	0	90 - 110		04/26/2017	20:04	LB87069
	Chloride	3	3	100	0	90 - 110		04/26/2017	20:04	LB87069
	Fluoride	2	2	100	0	90 - 110		04/26/2017	20:04	LB87069
	Phosphorus, Ortho	5.3	5	106	0	90 - 110		04/26/2017	20:04	LB87069
	Nitrite	3	3	100	0	90 - 110		04/26/2017	20:04	LB87069
	Nitrate	2.5	2.5	100	0	90 - 110		04/26/2017	20:04	LB87069
	Sulfate	14.7	15	98	0	90 - 110		04/26/2017	20:04	LB87069



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87069

SDG No.: LB87069

Contract: Lab Code: CHEM

Case No.: LB87069

SAS No.: LB87069

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	LB87069
	Chloride	0.075	+/-0.15	U		0.15		04/05/2017	03:20	LB87069
	Fluoride	0.043	+/-0.1	U		0.1		04/05/2017	03:20	LB87069
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/05/2017	03:20	LB87069
	Nitrite	0.022	+/-0.15	U		0.15		04/05/2017	03:20	LB87069
	Nitrate	0.027	+/-0.13	U		0.13		04/05/2017	03:20	LB87069
	Sulfate	0.13	+/-0.75	U		0.75		04/05/2017	03:20	LB87069



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87069

SDG No.: LB87069

Contract:

Lab Code: CHEM

Case No.: LB87069

SAS No.: LB87069

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		04/26/2017	15:30	LB87069
	Chloride	0.075	+/-0.15	U		0.15		04/26/2017	15:30	LB87069
	Fluoride	0.043	+/-0.1	U		0.1		04/26/2017	15:30	LB87069
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/26/2017	15:30	LB87069
	Nitrite	0.022	+/-0.15	U		0.15		04/26/2017	15:30	LB87069
	Nitrate	0.027	+/-0.13	U		0.13		04/26/2017	15:30	LB87069
	Sulfate	0.13	+/-0.75	U		0.75		04/26/2017	15:30	LB87069
CCB2	Bromide	0.066	+/-0.5	U		0.5		04/26/2017	20:34	LB87069
	Chloride	0.075	+/-0.15	U		0.15		04/26/2017	20:34	LB87069
	Fluoride	0.043	+/-0.1	U		0.1		04/26/2017	20:34	LB87069
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/26/2017	20:34	LB87069
	Nitrite	0.022	+/-0.15	U		0.15		04/26/2017	20:34	LB87069
	Nitrate	0.027	+/-0.13	U		0.13		04/26/2017	20:34	LB87069
	Sulfate	0.13	+/-0.75	U		0.75		04/26/2017	20:34	LB87069



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87069

SDG No.: LB87069

Contract: Lab Code: CHEM

Case No.: LB87069

SAS No.: LB87069

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:	4/25/2017 12:00:00 AM
Project:	LB87069	Date Received:	4/26/2017 12:00:00 AM
Client Sample ID:	POOLWATER	SDG No.:	LB87069
Lab Sample ID:	I2862-01	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		04/26/2017	300.0
	Chloride	0.081	J	1	0.075		0.15	mg/L		04/26/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		04/26/2017	300.0
	Nitrate	0.73		1	0.027		0.13	mg/L		04/26/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/26/2017	300.0
	Phosphorus, Ortho	-0.59	U	1	0.01		0.25	mg/L		04/26/2017	300.0
	Sulfate	0.76		1	0.13		0.75	mg/L		04/26/2017	300.0



Report of Analysis

Client:		Date Collected:	4/25/2017 12:00:00 AM
Project:	LB87069	Date Received:	4/26/2017 12:00:00 AM
Client Sample ID:	POOLWATER	SDG No.:	LB87069
Lab Sample ID:	I2862-01	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: LB87069

SDG No.: LB87069

Instrument: IC-2

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB87069BLW		WATER		Batch Number:			Prep Date:			
	Bromide	0.066	<0.5	U		0.5		04/26/2017	16:00	LB87069
	Chloride	0.075	<0.15	U		0.15		04/26/2017	16:00	LB87069
	Fluoride	0.043	<0.1	U		0.1		04/26/2017	16:00	LB87069
	Phosphorus, Ortho	0.01	<0.25	U		0.25		04/26/2017	16:00	LB87069
	Nitrite	0.022	<0.15	U		0.15		04/26/2017	16:00	LB87069
	Nitrate	0.027	<0.13	U		0.13		04/26/2017	16:00	LB87069
	Sulfate	0.13	<0.75	U		0.75		04/26/2017	16:00	LB87069



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MATRIX SPIKE SUMMARY

client: LB87069 level: low sdg no.: LB87069
contract: _____ lab code: CHEM case no.: LB87069 sas no.: LB87069
matrix: WATER sample id: I2862-01 client id: POOLWATERMS
Percent Solids for Sample: 0 Spiked ID: I2862-01MS 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	9.8		0.066	U	10	98		
Chloride	mg/L	80 - 120	2.9		0.081	J	3	94		
Fluoride	mg/L	80 - 120	2		0.043	U	2	100		
Phosphorus, Ortho	mg/L	80 - 120	5		0.01	U	5	100		
Nitrite	mg/L	80 - 120	2.9		0.022	U	3	96.7		
Nitrate	mg/L	80 - 120	3.1		0.73		2.5	95		
Sulfate	mg/L	80 - 120	14.7		0.76		15	93		

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DUPLICATE SAMPLE SUMMARY

Client: LB87069 **Level:** LOW **SDG No.:** LB87069
Contract: **Lab Code:** CHEM **Case No.:** LB87069 **SAS No.:** LB87069
Matrix: WATER **Sample ID:** I2862-01 **Client ID:** POOLWATERDUP
Percent Solids for Sample: 0 **Duplicate ID** I2862-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bromide	mg/L	20	0.066	U	0	U			
Chloride	mg/L	20	0.081	J	0.049	U	200.0	*	
Fluoride	mg/L	20	0.043	U	0	U			
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.022	U	0	U			
Nitrate	mg/L	20	0.73		0.34		73	*	
Sulfate	mg/L	20	0.76		0.78		3		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87069

SDG No.: LB87069

Contract:

Lab Code: CHEM

Case No.: LB87069

SAS No.: LB87069

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB87069BSW							
Bromide	mg/L	10	9.9		99	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Fluoride	mg/L	2	2		100	90 - 110	
Phosphorus, Ortho	mg/L	5	5		100	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	
Nitrate	mg/L	2.5	2.5		100	90 - 110	
Sulfate	mg/L	15	14.4		96	90 - 110	
