



Instrument ID : TITRATOR

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Daily Analysis Runlog For Sequence/QC Batch ID # LB91263

Review By		Review On				
SubDirectory		LB91263		Test : Bicarbonate		
STD. NAME		STD REF.#				
ICAL Standard		N/A				
ICV Standard		N/A				
CCV Standard		N/A				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP59312				
Chk Standard		W2269,W2159,W2270				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	LB91263BLW	LB91263BLW	MB	11/01/17 15:15		OK
2	LB91263BSW	LB91263BSW	LCS	11/01/17 15:17		OK
3	I6179-01	SWL-17	SAM	11/01/17 15:22		OK
4	I6179-02	SW16A	SAM	11/01/17 15:27		OK
5	I6179-03	SW13	SAM	11/01/17 15:31		OK
6	I6179-04	SW12A	SAM	11/01/17 15:35		OK
7	I6179-05	SW3A	SAM	11/01/17 15:38		OK
8	I6179-07	SW6	SAM	11/01/17 15:45		OK
9	I6179-08	SW7	SAM	11/01/17 15:48		OK
10	I6179-09	SW5	SAM	11/01/17 15:52		OK
11	I6179-11	SW14	SAM	11/01/17 15:57		OK
12	I6179-11DUP	SW14DUP	DUP	11/01/17 16:01		OK
13	I6179-06	SW11	SAM	11/01/17 16:06		OK
14	I6179-10	SW9	SAM	11/01/17 16:09		OK



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91263	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SWL-17	SDG No.:	LB91263
Lab Sample ID:	I6179-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	99.1		1	0.4		2	mg/L		11/01/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91263	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SW16A	SDG No.:	LB91263
Lab Sample ID:	I6179-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	84.8		1	0.4		2	mg/L		11/01/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91263	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SW13	SDG No.:	LB91263
Lab Sample ID:	I6179-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	64		1	0.4		2	mg/L		11/01/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91263	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SW12A	SDG No.:	LB91263
Lab Sample ID:	I6179-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	24.9		1	0.4		2	mg/L		11/01/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91263	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SW3A	SDG No.:	LB91263
Lab Sample ID:	I6179-05	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	49.4		1	0.4		2	mg/L		11/01/2017	SM2320 B



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Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91263	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SW11	SDG No.:	LB91263
Lab Sample ID:	I6179-06	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	14.3		1	0.4		2	mg/L		11/01/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91263	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SW6	SDG No.:	LB91263
Lab Sample ID:	I6179-07	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	22.4		1	0.4		2	mg/L		11/01/2017	SM2320 B



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Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91263	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SW7	SDG No.:	LB91263
Lab Sample ID:	I6179-08	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	24.7		1	0.4		2	mg/L		11/01/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91263	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SW5	SDG No.:	LB91263
Lab Sample ID:	I6179-09	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	22		1	0.4		2	mg/L		11/01/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91263	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SW9	SDG No.:	LB91263
Lab Sample ID:	I6179-10	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	2.2		1	0.4		2	mg/L		11/01/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91263	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SW14	SDG No.:	LB91263
Lab Sample ID:	I6179-11	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bicarbonate	85.5		1	0.4		2	mg/L		11/01/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91263	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	SW14	SDG No.:	LB91263
Lab Sample ID:	I6179-11	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: LB91263

SDG No.: LB91263

Instrument: Titroline Alpha Titrator

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB91263BLW	Bicarbonate	WATER 0.4	<2	Batch Number: U		2		Prep Date: 11/01/2017	15:15	LB91263

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91263 **Level:** LOW **SDG No.:** LB91263
Contract: **Lab Code:** CHEM **Case No.:** LB91263 **SAS No.:** LB91263
Matrix: WATER **Sample ID:** I6179-11 **Client ID:** SW14DUP
Percent Solids for Sample: 0 **Duplicate ID** I6179-11DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bicarbonate	mg/L	20	85.5		86.1		1		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91263

SDG No.: LB91263

Contract:

Lab Code: CHEM

Case No.: LB91263

SAS No.: LB91263

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB91263BSW Bicarbonate	mg/L	50	49.8		99.6	80 - 120	