

Daily Analysis Runlog For Sequence/QC Batch ID # LB91743

Review By		Review On				
SubDirectory		LB91743		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		WP59835				
Chk Standard		W2269,W2159,W2270				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	LB91743BLW	LB91743BLW	MB	11/22/17 12:18		OK
2	LB91743BSW	LB91743BSW	LCS	11/22/17 12:20		OK
3	I6576-01	MW4M-055-1	SAM	11/22/17 12:25		OK
4	I6576-02	MW1-055-1	SAM	11/22/17 12:30		OK
5	I6576-03	MW6-055-1	SAM	11/22/17 12:33		OK
6	I6576-04	MWP4-055-1	SAM	11/22/17 12:37		OK
7	I6576-06	MW8M-055-1	SAM	11/22/17 12:44		OK
8	I6576-07	MW8M-055-2	SAM	11/22/17 12:49		OK
9	I6576-08	MW8D-055-1	SAM	11/22/17 12:54		OK
10	I6576-10	I01I	SAM	11/22/17 13:02		OK
11	I6576-11	I04I	SAM	11/22/17 13:07		OK
12	I6576-12	I06I	SAM	11/22/17 13:11		OK
13	I6576-13	I03I	SAM	11/22/17 13:15		OK
14	I6576-14	I05I	SAM	11/22/17 13:30		OK
15	I6576-14DUP	I05IDUP	DUP	11/22/17 13:34		OK
16	I6576-05	MW8D-055-3	SAM	11/22/17 13:38		OK
17	I6576-09	MWP2-055-1	SAM	11/22/17 13:40		OK



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Report of Analysis

Client:		Date Collected:	11/21/2017 12:00:00 AM
Project:	LB91743	Date Received:	11/21/2017 12:00:00 AM
Client Sample ID:	MW4M-055-1	SDG No.:	LB91743
Lab Sample ID:	I6576-01	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	78.9		1	0.4		2	mg/L		11/22/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	11/21/2017 12:00:00 AM
Project:	LB91743	Date Received:	11/21/2017 12:00:00 AM
Client Sample ID:	MW1-055-1	SDG No.:	LB91743
Lab Sample ID:	I6576-02	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	67.8		1	0.4		2	mg/L		11/22/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	11/21/2017 12:00:00 AM
Project:	LB91743	Date Received:	11/21/2017 12:00:00 AM
Client Sample ID:	MW6-055-1	SDG No.:	LB91743
Lab Sample ID:	I6576-03	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	125		1	0.4		2	mg/L		11/22/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	11/21/2017 12:00:00 AM
Project:	LB91743	Date Received:	11/21/2017 12:00:00 AM
Client Sample ID:	MWP4-055-1	SDG No.:	LB91743
Lab Sample ID:	I6576-04	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	104		1	0.4		2	mg/L		11/22/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	11/21/2017 12:00:00 AM
Project:	LB91743	Date Received:	11/21/2017 12:00:00 AM
Client Sample ID:	MW8D-055-3	SDG No.:	LB91743
Lab Sample ID:	I6576-05	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	-0	U	1	0.4		2	mg/L		11/22/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	11/21/2017 12:00:00 AM
Project:	LB91743	Date Received:	11/21/2017 12:00:00 AM
Client Sample ID:	MW8M-055-1	SDG No.:	LB91743
Lab Sample ID:	I6576-06	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	192		1	0.4		2	mg/L		11/22/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	11/21/2017 12:00:00 AM
Project:	LB91743	Date Received:	11/21/2017 12:00:00 AM
Client Sample ID:	MW8M-055-2	SDG No.:	LB91743
Lab Sample ID:	I6576-07	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	190		1	0.4		2	mg/L		11/22/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	11/21/2017 12:00:00 AM
Project:	LB91743	Date Received:	11/21/2017 12:00:00 AM
Client Sample ID:	MW8D-055-1	SDG No.:	LB91743
Lab Sample ID:	I6576-08	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	121		1	0.4		2	mg/L		11/22/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	11/21/2017 12:00:00 AM
Project:	LB91743	Date Received:	11/21/2017 12:00:00 AM
Client Sample ID:	MWP2-055-1	SDG No.:	LB91743
Lab Sample ID:	I6576-09	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	18.1		1	0.4		2	mg/L		11/22/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	11/21/2017 12:00:00 AM
Project:	LB91743	Date Received:	11/21/2017 12:00:00 AM
Client Sample ID:	I01I	SDG No.:	LB91743
Lab Sample ID:	I6576-10	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	156		1	0.4		2	mg/L		11/22/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	11/21/2017 12:00:00 AM
Project:	LB91743	Date Received:	11/21/2017 12:00:00 AM
Client Sample ID:	I04I	SDG No.:	LB91743
Lab Sample ID:	I6576-11	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	77.1		1	0.4		2	mg/L		11/22/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	11/21/2017 12:00:00 AM
Project:	LB91743	Date Received:	11/21/2017 12:00:00 AM
Client Sample ID:	I06I	SDG No.:	LB91743
Lab Sample ID:	I6576-12	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	78.7		1	0.4		2	mg/L		11/22/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	11/21/2017 12:00:00 AM
Project:	LB91743	Date Received:	11/21/2017 12:00:00 AM
Client Sample ID:	I03I	SDG No.:	LB91743
Lab Sample ID:	I6576-13	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	77		1	0.4		2	mg/L		11/22/2017	SM2320 B



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Report of Analysis

Client:		Date Collected:	11/21/2017 12:00:00 AM
Project:	LB91743	Date Received:	11/21/2017 12:00:00 AM
Client Sample ID:	I05I	SDG No.:	LB91743
Lab Sample ID:	I6576-14	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	78.1		1	0.4		2	mg/L		11/22/2017	SM2320 B



Report of Analysis

Client:		Date Collected:	11/21/2017 12:00:00 AM
Project:	LB91743	Date Received:	11/21/2017 12:00:00 AM
Client Sample ID:	I05I	SDG No.:	LB91743
Lab Sample ID:	I6576-14	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: LB91743

SDG No.: LB91743

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
LB91743BLW	Bicarbonate	WATER 0.4	<2	Batch Number: U		2		Prep Date: 11/22/2017	12:18	LB91743

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DUPLICATE SAMPLE SUMMARY

Client: LB91743 **Level:** LOW **SDG No.:** LB91743
Contract: **Lab Code:** CHEM **Case No.:** LB91743 **SAS No.:** LB91743
Matrix: WATER **Sample ID:** I6576-14 **Client ID:** I05IDUP
Percent Solids for Sample: 0 **Duplicate ID** I6576-14DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bicarbonate	mg/L	20	78.1		77.1		1		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91743

SDG No.: LB91743

Contract:

Lab Code: CHEM

Case No.: LB91743

SAS No.: LB91743

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB91743BSW Bicarbonate	mg/L	50	58.4		116.8	80 - 120	