

Daily Analysis Runlog For Sequence/QC Batch ID # LB93558

Review By		Review On				
SubDirectory		LB93558		Test : Carbonate		
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		WP62328				
Chk Standard		W2269,W2159,W2270				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	LB93558BLW	LB93558BLW	MB	02/27/18 16:08		OK
2	LB93558BSW	LB93558BSW	LCS	02/27/18 16:15		OK
3	J1665-01	MW9-056-1	SAM	02/27/18 16:21		OK
4	J1665-02	MW2S-056-1	SAM	02/27/18 16:26		OK
5	J1665-03	MW10M-056-1	SAM	02/27/18 16:30		OK
6	J1665-04	MW10M-056-2	SAM	02/27/18 16:34		OK
7	J1665-05	MW10D-056-1	SAM	02/27/18 16:40		OK
8	J1665-07	MW11M-056-1	SAM	02/27/18 16:48		OK
9	J1665-06	MW11M-056-3	SAM	02/27/18 16:57		OK
10	J1665-08	MW11D-056-1	SAM	02/27/18 17:00		OK
11	J1665-09	MW4S-056-1	SAM	02/27/18 17:04		OK
12	J1665-10	MW4D-056-1	SAM	02/27/18 17:09		OK
13	LB93558BSW2	LB93558BSW2	LCS	02/27/18 17:15		OK
14	J1681-01	MW1-056-1	SAM	02/27/18 17:20		OK
15	J1681-02	MW6-056-3	SAM	02/27/18 17:28		OK
16	J1681-03	MW6-056-1	SAM	02/27/18 17:30		OK
17	J1681-04	MW8D-056-1	SAM	02/27/18 17:34		OK
18	J1681-04DUP	MW8D-056-1DUP	DUP	02/27/18 17:39		OK
19	J1681-05	MWP4-056-1	SAM	02/27/18 17:44		OK
20	J1681-06	MW8M-056-1	SAM	02/27/18 17:48		OK
21	J1681-07	MW8M-056-2	SAM	02/27/18 17:53		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB93558

Review By		Review On				
SubDirectory		Test : Carbonate				
LB93558						
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		WP62328				
Chk Standard		W2269,W2159,W2270				
22	J1681-08	MWP2-056-1	SAM	02/27/18 17:59		OK
23	J1681-09	MW4M-056-1	SAM	02/27/18 18:03		OK
24	J1682-01	I01I-056-1	SAM	02/27/18 18:08		OK
25	J1682-02	I03I-056-1	SAM	02/27/18 18:13		OK
26	J1682-03	I04I-056-1	SAM	02/27/18 18:17		OK
27	J1682-04	I05I-056-1	SAM	02/27/18 18:22		OK
28	J1682-05	I06I-056-1	SAM	02/27/18 18:27		OK
29	J1682-05DUP	I06I-056-1DUP	DUP	02/27/18 18:31		OK
30	LB93558BLW2	LB93558BLW2	MB	02/27/18 18:36		OK



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Report of Analysis

Client:		Date Collected:	2/22/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/22/2018 12:00:00 AM
Client Sample ID:	MW9-056-1	SDG No.:	LB93558
Lab Sample ID:	J1665-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.084	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/22/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/22/2018 12:00:00 AM
Client Sample ID:	MW2S-056-1	SDG No.:	LB93558
Lab Sample ID:	J1665-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.0013	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/22/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/22/2018 12:00:00 AM
Client Sample ID:	MW10M-056-1	SDG No.:	LB93558
Lab Sample ID:	J1665-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.18	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/22/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/22/2018 12:00:00 AM
Client Sample ID:	MW10M-056-2	SDG No.:	LB93558
Lab Sample ID:	J1665-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.22	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/22/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/22/2018 12:00:00 AM
Client Sample ID:	MW10D-056-1	SDG No.:	LB93558
Lab Sample ID:	J1665-05	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.22	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/22/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/22/2018 12:00:00 AM
Client Sample ID:	MW11M-056-3	SDG No.:	LB93558
Lab Sample ID:	J1665-06	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	-0	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/22/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/22/2018 12:00:00 AM
Client Sample ID:	MW11M-056-1	SDG No.:	LB93558
Lab Sample ID:	J1665-07	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.19	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/22/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/22/2018 12:00:00 AM
Client Sample ID:	MW11D-056-1	SDG No.:	LB93558
Lab Sample ID:	J1665-08	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.18	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/22/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/22/2018 12:00:00 AM
Client Sample ID:	MW4S-056-1	SDG No.:	LB93558
Lab Sample ID:	J1665-09	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.094	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/22/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/22/2018 12:00:00 AM
Client Sample ID:	MW4D-056-1	SDG No.:	LB93558
Lab Sample ID:	J1665-10	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.24	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	MW1-056-1	SDG No.:	LB93558
Lab Sample ID:	J1681-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.0056	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	MW6-056-3	SDG No.:	LB93558
Lab Sample ID:	J1681-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	-0	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	MW6-056-1	SDG No.:	LB93558
Lab Sample ID:	J1681-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.042	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	MW8D-056-1	SDG No.:	LB93558
Lab Sample ID:	J1681-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.25	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	MWP4-056-1	SDG No.:	LB93558
Lab Sample ID:	J1681-05	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.017	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	MW8M-056-1	SDG No.:	LB93558
Lab Sample ID:	J1681-06	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.23	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	MW8M-056-2	SDG No.:	LB93558
Lab Sample ID:	J1681-07	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.3	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	MWP2-056-1	SDG No.:	LB93558
Lab Sample ID:	J1681-08	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.0017	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	MW4M-056-1	SDG No.:	LB93558
Lab Sample ID:	J1681-09	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.17	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	I01I-056-1	SDG No.:	LB93558
Lab Sample ID:	J1682-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.18	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	I03I-056-1	SDG No.:	LB93558
Lab Sample ID:	J1682-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.32	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	I04I-056-1	SDG No.:	LB93558
Lab Sample ID:	J1682-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.24	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	I05I-056-1	SDG No.:	LB93558
Lab Sample ID:	J1682-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.2	U	1	0.4		2	mg/L		02/27/2018	SM2320 B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	I06I-056-1	SDG No.:	LB93558
Lab Sample ID:	J1682-05	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Carbonate	0.24	U	1	0.4		2	mg/L		02/27/2018	SM2320 B

Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93558	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	I06I-056-1	SDG No.:	LB93558
Lab Sample ID:	J1682-05	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
- 3b -
PREPARATION BLANK SUMMARY

Client: LB93558

SDG No.: LB93558

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
LB93558BLW		WATER		Batch Number:				Prep Date:		
	Carbonate	0.4	<2	U		2		02/27/2018	16:08	LB93558
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB93558BLW2		WATER		Batch Number:				Prep Date:		
	Carbonate	0.4	<2	U		2		02/27/2018	18:36	LB93558

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB93558 **Level:** LOW **SDG No.:** LB93558
Contract: **Lab Code:** CHEM **Case No.:** LB93558 **SAS No.:** LB93558
Matrix: WATER **Sample ID:** J1681-04 **Client ID:** MW8D-056-1DUP
Percent Solids for Sample: 0 **Duplicate ID** J1681-04DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Carbonate	mg/L	20	0.4	U	0.25	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB93558 **Level:** LOW **SDG No.:** LB93558
Contract: **Lab Code:** CHEM **Case No.:** LB93558 **SAS No.:** LB93558
Matrix: WATER **Sample ID:** J1682-05 **Client ID:** I06I-056-1DUP
Percent Solids for Sample: 0 **Duplicate ID** J1682-05DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Carbonate	mg/L	20	0.4	U	0.22	U			



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93558

SDG No.: LB93558

Contract:

Lab Code: CHEM

Case No.: LB93558

SAS No.: LB93558

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB93558BSW Carbonate	mg/L	50	43.1		86.2	80 - 120	



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93558

SDG No.: LB93558

Contract:

Lab Code: CHEM

Case No.: LB93558

SAS No.: LB93558

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB93558BSW2 Carbonate	mg/L	50	44.8		89.6	80 - 120	