

Daily Analysis Runlog For Sequence/QC Batch ID # LB94093

Review By		Review On				
SubDirectory		LB94093		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP67978,WP67979,WP67980,WP67981,WP67982,WP67983,WP67984				
ICV Standard		WP67985				
CCV Standard		WP67980				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP67985				
Chk Standard		WP62458,WP62459				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	03/12/18 14:48		OK
2	STD2	STD2	CAL2	03/12/18 15:19		OK
3	STD3	STD3	CAL3	03/12/18 15:50		OK
4	STD4	STD4	CAL4	03/12/18 16:21		OK
5	STD5	STD5	CAL5	03/12/18 16:52		OK
6	STD6	STD6	CAL6	03/12/18 17:22		OK
7	STD7	STD7	CAL7	03/12/18 17:53		OK
8	ICV1	ICV1	ICV	03/12/18 19:26		OK
9	ICB1	ICB1	ICB	03/12/18 19:57		OK
10	CCV1	CCV1	CCV	03/22/18 10:43		OK
11	CCB1	CCB1	CCB	03/22/18 11:14		OK
12	LB94093BLW	LB94093BLW	MB	03/22/18 11:45		OK
13	LB94093BSW	LB94093BSW	LCS	03/22/18 12:16		OK
14	J2020-01	DEIONIZED-WATER	SAM	03/22/18 15:14		OK
15	J2020-01DUP	DEIONIZED-WATER	DUP	03/22/18 15:45		OK
16	J2020-01MS	DEIONIZED-WATER	MS	03/22/18 16:16		OK
17	J2020-01MSD	DEIONIZED-WATER	MSD	03/22/18 16:47		OK
18	CCV2	CCV2	CCV	03/22/18 17:18		OK
19	CCB2	CCB2	CCB	03/22/18 17:49		OK



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Report of Analysis

Client:		Date Collected:	3/21/2018 12:00:00 AM
Project:	LB94093	Date Received:	3/22/2018 12:00:00 AM
Client Sample ID:	DEIONIZED-WATER	SDG No.:	LB94093
Lab Sample ID:	J2020-01	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		03/22/2018	300.0
	Chloride	0.089	J	1	0.075		0.15	mg/L		03/22/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		03/22/2018	300.0
	Nitrate	0.053	J	1	0.027		0.13	mg/L		03/22/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		03/22/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		03/22/2018	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		03/22/2018	300.0



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Report of Analysis

Client:		Date Collected:	3/21/2018 12:00:00 AM
Project:	LB94093	Date Received:	3/22/2018 12:00:00 AM
Client Sample ID:	DEIONIZED-WATER	SDG No.:	LB94093
Lab Sample ID:	J2020-01	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



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94093

SDG No.: LB94093

Contract: _____ Lab Code: CHEM

Case No.: LB94093

SAS No.: LB94093

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Bromide	9.6	10	96		90 - 110		03/12/2018	19:26	LB94093
	Chloride	2.9	3	96.7		90 - 110		03/12/2018	19:26	LB94093
	Fluoride	1.9	2	95		90 - 110		03/12/2018	19:26	LB94093
	Phosphorus, Ortho	4.7	5	94		90 - 110		03/12/2018	19:26	LB94093
	Nitrite	2.8	3	93.3		90 - 110		03/12/2018	19:26	LB94093
	Nitrate	2.4	2.5	96		90 - 110		03/12/2018	19:26	LB94093
	Sulfate	14.2	15	94.7		90 - 110		03/12/2018	19:26	LB94093



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94093

SDG No.: LB94093

Contract: _____ Lab Code: CHEM

Case No.: LB94093

SAS No.: LB94093

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Bromide	10.5	10	105		90 - 110		03/22/2018	10:43	LB94093
	Chloride	3.2	3	106.7		90 - 110		03/22/2018	10:43	LB94093
	Fluoride	2.1	2	105		90 - 110		03/22/2018	10:43	LB94093
	Phosphorus, Ortho	4.8	5	96		90 - 110		03/22/2018	10:43	LB94093
	Nitrite	3.1	3	103.3		90 - 110		03/22/2018	10:43	LB94093
	Nitrate	2.6	2.5	104		90 - 110		03/22/2018	10:43	LB94093
	Sulfate	14.7	15	98		90 - 110		03/22/2018	10:43	LB94093
CCV2	Bromide	10.1	10	101		90 - 110		03/22/2018	17:18	LB94093
	Chloride	3	3	100		90 - 110		03/22/2018	17:18	LB94093
	Fluoride	2.1	2	105		90 - 110		03/22/2018	17:18	LB94093
	Phosphorus, Ortho	4.6	5	92		90 - 110		03/22/2018	17:18	LB94093
	Nitrite	2.9	3	96.7		90 - 110		03/22/2018	17:18	LB94093
	Nitrate	2.5	2.5	100		90 - 110		03/22/2018	17:18	LB94093
	Sulfate	13.9	15	92.7		90 - 110		03/22/2018	17:18	LB94093



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94093

SDG No.: LB94093

Contract: Lab Code: CHEM

Case No.: LB94093

SAS No.: LB94093

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		03/12/2018	19:57	LB94093
	Chloride	0.075	+/-0.15	U		0.15		03/12/2018	19:57	LB94093
	Fluoride	0.043	+/-0.1	U		0.1		03/12/2018	19:57	LB94093
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/12/2018	19:57	LB94093
	Nitrite	0.022	+/-0.15	U		0.15		03/12/2018	19:57	LB94093
	Nitrate	0.027	+/-0.13	U		0.13		03/12/2018	19:57	LB94093
	Sulfate	0.13	+/-0.75	U		0.75		03/12/2018	19:57	LB94093

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		03/22/2018	11:14	LB94093
	Chloride	0.075	+/-0.15	U		0.15		03/22/2018	11:14	LB94093
	Fluoride	0.043	+/-0.1	U		0.1		03/22/2018	11:14	LB94093
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/22/2018	11:14	LB94093
	Nitrite	0.022	+/-0.15	U		0.15		03/22/2018	11:14	LB94093
	Nitrate	0.027	+/-0.13	U		0.13		03/22/2018	11:14	LB94093
	Sulfate	0.13	+/-0.75	U		0.75		03/22/2018	11:14	LB94093
CCB2	Bromide	0.066	+/-0.5	U		0.5		03/22/2018	17:49	LB94093
	Chloride	0.075	+/-0.15	U		0.15		03/22/2018	17:49	LB94093
	Fluoride	0.043	+/-0.1	U		0.1		03/22/2018	17:49	LB94093
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/22/2018	17:49	LB94093
	Nitrite	0.022	+/-0.15	U		0.15		03/22/2018	17:49	LB94093
	Nitrate	0.027	+/-0.13	U		0.13		03/22/2018	17:49	LB94093
	Sulfate	0.13	+/-0.75	U		0.75		03/22/2018	17:49	LB94093



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94093

SDG No.: LB94093

Contract: Lab Code: CHEM

Case No.: LB94093

SAS No.: LB94093

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB94093

SDG No.: LB94093

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
LB94093BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		03/22/2018	11:45	LB94093
	Chloride	0.075	<0.15	U		0.15		03/22/2018	11:45	LB94093
	Fluoride	0.043	<0.1	U		0.1		03/22/2018	11:45	LB94093
	Phosphorus, Ortho	0.01	<0.25	U		0.25		03/22/2018	11:45	LB94093
	Nitrite	0.022	<0.15	U		0.15		03/22/2018	11:45	LB94093
	Nitrate	0.027	<0.13	U		0.13		03/22/2018	11:45	LB94093
	Sulfate	0.13	<0.75	U		0.75		03/22/2018	11:45	LB94093



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB94093 **level:** low **sdg no.:** LB94093
contract: _____ **lab code:** CHEM **case no.:** LB94093 **sas no.:** LB94093
matrix: WATER **sample id:** J2020-01 **client id:** DEIONIZED-WATERMS
Percent Solids for Sample: 0 **Spiked ID:** J2020-01MS **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance	Spiked	Sample		Spike	%	Qual	M
		Limit %R	Result	C	Result	C	Added	Recovery	
Bromide	mg/L	80 - 120	11.3		0.066	U	10	113	
Chloride	mg/L	80 - 120	3.5		0.089	J	3	114	
Fluoride	mg/L	80 - 120	2.3		0.043	U	2	115	
Phosphorus, Ortho	mg/L	80 - 120	5		0.01	U	5	100	
Nitrite	mg/L	80 - 120	3.3		0.022	U	3	110	
Nitrate	mg/L	80 - 120	2.9		0.053	J	2.5	114	
Sulfate	mg/L	80 - 120	15.8		0.13	U	15	105.3	



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MATRIX SPIKE DUPLICATE SUMMARY

client: LB94093 **level:** low **sdg no.:** LB94093
contract: _____ **lab code:** CHEM **case no.:** LB94093 **sas no.:** LB94093
matrix: WATER **sample id:** J2020-01 **client id:** DEIONIZED-WATERMSD
Percent Solids for Sample: 0 **Spiked ID:** J2020-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance	MSD	Sample		Spike	% Recovery		Qual	M
		Limit %R	Result	C	Result					
Bromide	mg/L	80 - 120	10.7		0.066	U	10	107		
Chloride	mg/L	80 - 120	3.3		0.089	J	3	107		
Fluoride	mg/L	80 - 120	2.1		0.043	U	2	105		
Phosphorus, Ortho	mg/L	80 - 120	4.7		0.01	U	5	94		
Nitrite	mg/L	80 - 120	3.1		0.022	U	3	103.3		
Nitrate	mg/L	80 - 120	2.7		0.053	J	2.5	106		
Sulfate	mg/L	80 - 120	14.9		0.13	U	15	99.3		

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DUPLICATE SAMPLE SUMMARY

Client: LB94093 **Level:** LOW **SDG No.:** LB94093
Contract: _____ **Lab Code:** CHEM **Case No.:** LB94093 **SAS No.:** LB94093
Matrix: WATER **Sample ID:** J2020-01 **Client ID:** DEIONIZED-WATERDUP
Percent Solids for Sample: 0 **Duplicate ID** J2020-01DUP **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	0.089	J	0.087	J	2		
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	0.053	J	0.051	J	4		
Sulfate	mg/L	20	0.13	U	0	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB94093 **Level:** LOW **SDG No.:** LB94093
Contract: _____ **Lab Code:** CHEM **Case No.:** LB94093 **SAS No.:** LB94093
Matrix: WATER **Sample ID:** J2020-01MS **Client ID:** DEIONIZED-WATERMSD
Percent Solids for Sample: 0 **Duplicate ID** J2020-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bromide	mg/L	20	11.3		10.7		5		
Chloride	mg/L	20	3.5		3.3		6		
Fluoride	mg/L	20	2.3		2.1		9		
Phosphorus, Ortho	mg/L	20	5		4.7		6		
Nitrite	mg/L	20	3.3		3.1		6		
Nitrate	mg/L	20	2.9		2.7		7		
Sulfate	mg/L	20	15.8		14.9		6		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94093

SDG No.: LB94093

Contract:

Lab Code: CHEM

Case No.: LB94093

SAS No.: LB94093

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB94093BSW							
Bromide	mg/L	10	10.5		105	90 - 110	
Chloride	mg/L	3	3.1		103.3	90 - 110	
Fluoride	mg/L	2	2.1		105	90 - 110	
Phosphorus, Ortho	mg/L	5	4.9		98	90 - 110	
Nitrite	mg/L	3	3.1		103.3	90 - 110	
Nitrate	mg/L	2.5	2.6		104	90 - 110	
Sulfate	mg/L	15	15.4		102.7	90 - 110	
