

Daily Analysis Runlog For Sequence/QC Batch ID # LB89223

Review By		Review On				
SubDirectory		LB89223		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP56304,WP56305,WP56306,WP56307,WP56308,WP56309,WP56310				
ICV Standard		WP56311				
CCV Standard		WP56306				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP56311				
Chk Standard		WP56312,WP56313				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	07/11/17 10:41		OK
2	STD2	STD2	CAL2	07/11/17 11:10		OK
3	STD3	STD3	CAL3	07/11/17 11:39		OK
4	STD4	STD4	CAL4	07/11/17 12:08		OK
5	STD5	STD5	CAL5	07/11/17 12:37		OK
6	STD6	STD6	CAL6	07/11/17 13:06		OK
7	STD7	STD7	CAL7	07/11/17 13:35		OK
8	ICV1	ICV1	ICV	07/11/17 15:03		OK
9	ICB1	ICB1	ICB	07/11/17 15:32		OK
10	CCV1	CCV1	CCV	08/02/17 12:45		OK
11	CCB1	CCB1	CCB	08/02/17 13:14		OK
12	LB89223BLW	LB89223BLW	MB	08/02/17 15:34		OK
13	LB89223BSW	LB89223BSW	LCS	08/02/17 16:03		OK
14	I4589-01	2AVE-05	SAM	08/02/17 16:32		OK
15	I4589-01DUP	2AVE-05DUP	DUP	08/02/17 17:01		OK
16	I4589-01MS	2AVE-05MS	MS	08/02/17 17:30		OK
17	CCV2	CCV2	CCV	08/02/17 17:59		OK
18	CCB2	CCB2	CCB	08/02/17 18:28		OK



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Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89223	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	2AVE-05	SDG No.:	LB89223
Lab Sample ID:	I4589-01	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	3		1	0.066		0.5	mg/L		08/02/2017	300.0
	Chloride	975	OR	1	0.075		0.15	mg/L		08/02/2017	300.0
	Fluoride	0.41		1	0.043		0.1	mg/L		08/02/2017	300.0
	Nitrate	0.93		1	0.027		0.13	mg/L		08/02/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		08/02/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		08/02/2017	300.0
	Sulfate	160	OR	1	0.13		0.75	mg/L		08/02/2017	300.0



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Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89223	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	2AVE-05	SDG No.:	LB89223
Lab Sample ID:	I4589-01	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: LB89223

SDG No.: LB89223

Contract: _____ Lab Code: CHEM

Case No.: LB89223

SAS No.: LB89223

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	10.3	10	103	0	90 - 110		07/11/2017	15:03	LB89223
	Chloride	3	3	100	0	90 - 110		07/11/2017	15:03	LB89223
	Fluoride	2.1	2	105	0	90 - 110		07/11/2017	15:03	LB89223
	Phosphorus, Ortho	5.3	5	106	0	90 - 110		07/11/2017	15:03	LB89223
	Nitrite	3	3	100	0	90 - 110		07/11/2017	15:03	LB89223
	Nitrate	2.5	2.5	100	0	90 - 110		07/11/2017	15:03	LB89223
	Sulfate	14.7	15	98	0	90 - 110		07/11/2017	15:03	LB89223



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89223

SDG No.: LB89223

Contract: _____ Lab Code: CHEM

Case No.: LB89223

SAS No.: LB89223

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	9.6	10	96	0	90 - 110		08/02/2017	12:45	LB89223
	Chloride	3	3	100	0	90 - 110		08/02/2017	12:45	LB89223
	Fluoride	1.9	2	95	0	90 - 110		08/02/2017	12:45	LB89223
	Phosphorus, Ortho	4.2	5	84	0	90 - 110		08/02/2017	12:45	LB89223
	Nitrite	2.9	3	96.7	0	90 - 110		08/02/2017	12:45	LB89223
	Nitrate	2.5	2.5	100	0	90 - 110		08/02/2017	12:45	LB89223
	Sulfate	14.2	15	94.7	0	90 - 110		08/02/2017	12:45	LB89223
CCV2	Bromide	10	10	100	0	90 - 110		08/02/2017	17:59	LB89223
	Chloride	3.1	3	103.3	0	90 - 110		08/02/2017	17:59	LB89223
	Fluoride	2	2	100	0	90 - 110		08/02/2017	17:59	LB89223
	Phosphorus, Ortho	4.1	5	82	0	90 - 110		08/02/2017	17:59	LB89223
	Nitrite	3	3	100	0	90 - 110		08/02/2017	17:59	LB89223
	Nitrate	2.5	2.5	100	0	90 - 110		08/02/2017	17:59	LB89223
	Sulfate	14.3	15	95.3	0	90 - 110		08/02/2017	17:59	LB89223



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89223

SDG No.: LB89223

Contract: Lab Code: CHEM

Case No.: LB89223

SAS No.: LB89223

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		07/11/2017	15:32	LB89223
	Chloride	0.075	+/-0.15	U		0.15		07/11/2017	15:32	LB89223
	Fluoride	0.043	+/-0.1	U		0.1		07/11/2017	15:32	LB89223
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		07/11/2017	15:32	LB89223
	Nitrite	0.022	+/-0.15	U		0.15		07/11/2017	15:32	LB89223
	Nitrate	0.027	+/-0.13	U		0.13		07/11/2017	15:32	LB89223
	Sulfate	0.13	+/-0.75	U		0.75		07/11/2017	15:32	LB89223



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89223

SDG No.: LB89223

Contract:

Lab Code: CHEM

Case No.: LB89223

SAS No.: LB89223

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		08/02/2017	13:14	LB89223
	Chloride	0.075	+/-0.15	U		0.15		08/02/2017	13:14	LB89223
	Fluoride	0.043	+/-0.1	U		0.1		08/02/2017	13:14	LB89223
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		08/02/2017	13:14	LB89223
	Nitrite	0.022	+/-0.15	U		0.15		08/02/2017	13:14	LB89223
	Nitrate	0.027	+/-0.13	U		0.13		08/02/2017	13:14	LB89223
	Sulfate	0.13	+/-0.75	U		0.75		08/02/2017	13:14	LB89223
CCB2	Bromide	0.066	+/-0.5	U		0.5		08/02/2017	18:28	LB89223
	Chloride	0.075	+/-0.15	U		0.15		08/02/2017	18:28	LB89223
	Fluoride	0.043	+/-0.1	U		0.1		08/02/2017	18:28	LB89223
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		08/02/2017	18:28	LB89223
	Nitrite	0.022	+/-0.15	U		0.15		08/02/2017	18:28	LB89223
	Nitrate	0.027	+/-0.13	U		0.13		08/02/2017	18:28	LB89223
	Sulfate	0.13	+/-0.75	U		0.75		08/02/2017	18:28	LB89223



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	LB89223	SDG No.:	LB89223				
Contract:		Lab Code:	CHEM	Case No.:	LB89223	SAS No.:	LB89223

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

Client: LB89223

SDG No.: LB89223

Instrument: IC-1

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB89223BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		08/02/2017	15:34	LB89223
	Chloride	0.075	<0.15	U		0.15		08/02/2017	15:34	LB89223
	Fluoride	0.043	<0.1	U		0.1		08/02/2017	15:34	LB89223
	Phosphorus, Ortho	0.01	<0.25	U		0.25		08/02/2017	15:34	LB89223
	Nitrite	0.022	<0.15	U		0.15		08/02/2017	15:34	LB89223
	Nitrate	0.027	<0.13	U		0.13		08/02/2017	15:34	LB89223
	Sulfate	0.13	<0.75	U		0.75		08/02/2017	15:34	LB89223



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MATRIX SPIKE SUMMARY

client:	<u>LB89223</u>	level:	<u>low</u>	sdg no.:	<u>LB89223</u>			
contract:	<u> </u>	lab code:	<u>CHEM</u>	case no.:	<u>LB89223</u>	sas no.:	<u>LB89223</u>	
matrix:	<u>WATER</u>	sample id:	<u>I4589-01</u>	client id:	<u>2AVE-05MS</u>			
Percent Solids for Sample:		<u>0</u>	Spiked ID:		<u>I4589-01MS</u>	Percent Solids for Spike Sample:		<u>0</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Bromide	mg/L	80 - 120	13.1		3		10	101		
Chloride	mg/L	80 - 120	867	OR	975	OR	3	-3600	*	
Fluoride	mg/L	80 - 120	2.5		0.41		2	104		
Phosphorus, Ortho	mg/L	80 - 120	4.3		0.01	U	5	86		
Nitrite	mg/L	80 - 120	2.7		0.022	U	3	90		
Nitrate	mg/L	80 - 120	3.4		0.93		2.5	99		
Sulfate	mg/L	80 - 120	161	OR	160	OR	15	7	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB89223 **Level:** LOW **SDG No.:** LB89223
Contract: **Lab Code:** CHEM **Case No.:** LB89223 **SAS No.:** LB89223
Matrix: WATER **Sample ID:** I4589-01 **Client ID:** 2AVE-05DUP
Percent Solids for Sample: 0 **Duplicate ID** I4589-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bromide	mg/L	20	3		2.9		3		
Chloride	mg/L	20	975	OR	976	OR	0		
Fluoride	mg/L	20	0.41		0.38		8		
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.022	U	0	U			
Nitrate	mg/L	20	0.93		0.92		1		
Sulfate	mg/L	20	160	OR	160	OR	0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89223

SDG No.: LB89223

Contract: _____

Lab Code: CHEM

Case No.: LB89223

SAS No.: LB89223

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB89223BSW							
Bromide	mg/L	10	9.8		98	90 - 110	
Chloride	mg/L	3	3		100	90 - 110	
Fluoride	mg/L	2	2.1		105	90 - 110	
Phosphorus, Ortho	mg/L	5	3.9		78	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	
Nitrate	mg/L	2.5	2.4		96	90 - 110	
Sulfate	mg/L	15	13.9		92.7	90 - 110	
