

Daily Analysis Runlog For Sequence/QC Batch ID # LB86926

Review By		Review On				
SubDirectory		LB86926		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP54202,WP54203,WP54204,WP54205,WP54206,WP54207,WP54208				
ICV Standard		WP54209				
CCV Standard		WP54204				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54209				
Chk Standard		WP54100,WP54101				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	04/14/17 13:33		
2	STD2	STD2	CAL2	04/14/17 14:04		
3	STD3	STD3	CAL3	04/14/17 14:34		
4	STD4	STD4	CAL4	04/14/17 15:05		
5	STD5	STD5	CAL5	04/14/17 15:36		
6	STD6	STD6	CAL6	04/14/17 16:07		
7	STD7	STD7	CAL7	04/14/17 16:38		
8	ICV1	ICV1	ICV	04/14/17 18:12		
9	ICB1	ICB1	ICB	04/14/17 18:43		
10	CCV1	CCV1	CCV	04/17/17 15:48		
11	CCB1	CCB1	CCB	04/17/17 16:32		
12	LB86926BLW	LB86926BLW	MB	04/17/17 17:03		
13	LB86926BSW	LB86926BSW	LCS	04/17/17 17:34		
14	I2730-03	EXCELL	SAM	04/17/17 18:04		
15	I2731-03	MAINCELL	SAM	04/17/17 18:35		
16	I2742-01	POOLWATER	SAM	04/17/17 19:06		
17	I2731-03DUP	MAINCELLEDUP	DUP	04/17/17 19:37		
18	I2731-03MS	MAINCELLMS	MS	04/17/17 20:08		
19	CCV2	CCV2	CCV	04/17/17 21:10		
20	CCB2	CCB2	CCB	04/17/17 21:41		



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86926	Date Received:	4/17/2017 12:00:00 AM
Client Sample ID:	EXCELL	SDG No.:	LB86926
Lab Sample ID:	I2730-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	U	1	0.066		0.5	mg/L		04/17/2017	300.0
	Chloride	0	U	1	0.075		0.15	mg/L		04/17/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		04/17/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		04/17/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/17/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/17/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		04/17/2017	300.0



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Report of Analysis

Client:		Date Collected:	4/11/2017 12:00:00 AM
Project:	LB86926	Date Received:	4/17/2017 12:00:00 AM
Client Sample ID:	MAINCELL	SDG No.:	LB86926
Lab Sample ID:	I2731-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	U	1	0.066		0.5	mg/L		04/17/2017	300.0
	Chloride	0	U	1	0.075		0.15	mg/L		04/17/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		04/17/2017	300.0
	Nitrate	0.17		1	0.027		0.13	mg/L		04/17/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/17/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/17/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		04/17/2017	300.0



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Report of Analysis

Client:		Date Collected:	4/7/2017 12:00:00 AM
Project:	LB86926	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	POOLWATER	SDG No.:	LB86926
Lab Sample ID:	I2742-01	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		04/17/2017	300.0
	Chloride	0.23		1	0.075		0.15	mg/L		04/17/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		04/17/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		04/17/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/17/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/17/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		04/17/2017	300.0



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Report of Analysis

Client:		Date Collected:	4/7/2017 12:00:00 AM
Project:	LB86926	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	POOLWATER	SDG No.:	LB86926
Lab Sample ID:	I2742-01	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: LB86926

SDG No.: LB86926

Contract: _____ Lab Code: CHEM

Case No.: LB86926

SAS No.: LB86926

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	9.8	10	98	0	90 - 110		04/14/2017	18:12	LB86926
	Chloride	3.1	3	103.3	0	90 - 110		04/14/2017	18:12	LB86926
	Fluoride	2.1	2	105	0	90 - 110		04/14/2017	18:12	LB86926
	Phosphorus, Ortho	5.5	5	110	0	90 - 110		04/14/2017	18:12	LB86926
	Nitrite	3.1	3	103.3	0	90 - 110		04/14/2017	18:12	LB86926
	Nitrate	2.4	2.5	96	0	90 - 110		04/14/2017	18:12	LB86926
	Sulfate	14.5	15	96.7	0	90 - 110		04/14/2017	18:12	LB86926



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86926

SDG No.: LB86926

Contract: _____ Lab Code: CHEM

Case No.: LB86926

SAS No.: LB86926

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	9.9	10	99	0	90 - 110		04/17/2017	15:48	LB86926
	Chloride	3	3	100	0	90 - 110		04/17/2017	15:48	LB86926
	Fluoride	2.1	2	105	0	90 - 110		04/17/2017	15:48	LB86926
	Phosphorus, Ortho	5.2	5	104	0	90 - 110		04/17/2017	15:48	LB86926
	Nitrite	2.9	3	96.7	0	90 - 110		04/17/2017	15:48	LB86926
	Nitrate	2.5	2.5	100	0	90 - 110		04/17/2017	15:48	LB86926
	Sulfate	14.2	15	94.7	0	90 - 110		04/17/2017	15:48	LB86926
CCV2	Bromide	9.8	10	98	0	90 - 110		04/17/2017	21:10	LB86926
	Chloride	3	3	100	0	90 - 110		04/17/2017	21:10	LB86926
	Fluoride	2.1	2	105	0	90 - 110		04/17/2017	21:10	LB86926
	Phosphorus, Ortho	5.3	5	106	0	90 - 110		04/17/2017	21:10	LB86926
	Nitrite	2.8	3	93.3	0	90 - 110		04/17/2017	21:10	LB86926
	Nitrate	2.5	2.5	100	0	90 - 110		04/17/2017	21:10	LB86926
	Sulfate	14.3	15	95.3	0	90 - 110		04/17/2017	21:10	LB86926



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86926

SDG No.: LB86926

Contract: Lab Code: CHEM

Case No.: LB86926

SAS No.: LB86926

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		04/14/2017	18:43	LB86926
	Chloride	0.075	+/-0.15	U		0.15		04/14/2017	18:43	LB86926
	Fluoride	0.043	+/-0.1	U		0.1		04/14/2017	18:43	LB86926
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/14/2017	18:43	LB86926
	Nitrite	0.022	+/-0.15	U		0.15		04/14/2017	18:43	LB86926
	Nitrate	0.027	+/-0.13	U		0.13		04/14/2017	18:43	LB86926
	Sulfate	0.13	+/-0.75	U		0.75		04/14/2017	18:43	LB86926



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86926

SDG No.: LB86926

Contract:

Lab Code: CHEM

Case No.: LB86926

SAS No.: LB86926

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		04/17/2017	16:32	LB86926
	Chloride	0.075	+/-0.15	U		0.15		04/17/2017	16:32	LB86926
	Fluoride	0.043	+/-0.1	U		0.1		04/17/2017	16:32	LB86926
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/17/2017	16:32	LB86926
	Nitrite	0.022	+/-0.15	U		0.15		04/17/2017	16:32	LB86926
	Nitrate	0.027	+/-0.13	U		0.13		04/17/2017	16:32	LB86926
	Sulfate	0.13	+/-0.75	U		0.75		04/17/2017	16:32	LB86926
CCB2	Bromide	0.066	+/-0.5	U		0.5		04/17/2017	21:41	LB86926
	Chloride	0.075	+/-0.15	U		0.15		04/17/2017	21:41	LB86926
	Fluoride	0.043	+/-0.1	U		0.1		04/17/2017	21:41	LB86926
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/17/2017	21:41	LB86926
	Nitrite	0.022	+/-0.15	U		0.15		04/17/2017	21:41	LB86926
	Nitrate	0.027	+/-0.13	U		0.13		04/17/2017	21:41	LB86926
	Sulfate	0.13	+/-0.75	U		0.75		04/17/2017	21:41	LB86926



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86926

SDG No.: LB86926

Contract: Lab Code: CHEM

Case No.: LB86926

SAS No.: LB86926

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

Client: LB86926

SDG No.: LB86926

Instrument: IC Metrohm

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB86926BLW		WATER		Batch Number:			Prep Date:			
	Bromide	0.066	<0.5	U		0.5		04/17/2017	17:03	LB86926
	Chloride	0.075	<0.15	U		0.15		04/17/2017	17:03	LB86926
	Fluoride	0.043	<0.1	U		0.1		04/17/2017	17:03	LB86926
	Phosphorus, Ortho	0.01	<0.25	U		0.25		04/17/2017	17:03	LB86926
	Nitrite	0.022	<0.15	U		0.15		04/17/2017	17:03	LB86926
	Nitrate	0.027	<0.13	U		0.13		04/17/2017	17:03	LB86926
	Sulfate	0.13	<0.75	U		0.75		04/17/2017	17:03	LB86926



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MATRIX SPIKE SUMMARY

client: LB86926 level: low sdg no.: LB86926
contract: lab code: CHEM case no.: LB86926 sas no.: LB86926
matrix: WATER sample id: I2731-03 client id: MAINCELLMS
Percent Solids for Sample: 0 Spiked ID: I2731-03MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Bromide	mg/L	80 - 120	11.2		0.066	U	10	112		
Chloride	mg/L	80 - 120	3.1		0.075	U	3	103.3		
Fluoride	mg/L	80 - 120	2.1		0.043	U	2	105		
Phosphorus, Ortho	mg/L	80 - 120	5.2		0.01	U	5	104		
Nitrite	mg/L	80 - 120	3		0.022	U	3	100		
Nitrate	mg/L	80 - 120	2.7		0.17		2.5	101		
Sulfate	mg/L	80 - 120	15.2		0.13	U	15	101.3		

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DUPLICATE SAMPLE SUMMARY

Client: LB86926 **Level:** LOW **SDG No.:** LB86926
Contract: **Lab Code:** CHEM **Case No.:** LB86926 **SAS No.:** LB86926
Matrix: WATER **Sample ID:** I2731-03 **Client ID:** MAINCELLDUP
Percent Solids for Sample: 0 **Duplicate ID** I2731-03DUP **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	0.075	U	0	U			
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	0.17		0.16		6		
Sulfate	mg/L	20	0.13	U	0	U			



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86926

SDG No.: LB86926

Contract:

Lab Code: CHEM

Case No.: LB86926

SAS No.: LB86926

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB86926BSW							
Bromide	mg/L	10	9.9		99	90 - 110	
Chloride	mg/L	3	3		100	90 - 110	
Fluoride	mg/L	2	2.2		110	90 - 110	
Phosphorus, Ortho	mg/L	5	5.9		118	90 - 110	
Nitrite	mg/L	3	3		100	90 - 110	
Nitrate	mg/L	2.5	2.4		96	90 - 110	
Sulfate	mg/L	15	14.7		98	90 - 110	
