

Daily Analysis Runlog For Sequence/QC Batch ID # LB92762

Review By

SubDirectory

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Test : Anions

LB92762

STD. NAME		STD REF.#				
ICAL Standard		WP60845,WP60846,WP60847,WP60848,WP60849,WP60850,WP60851				
ICV Standard		WP60852				
CCV Standard		WP61040				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP61041				
Chk Standard		WP60667,WP60668				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	01/09/18 12:09		OK
2	STD2	STD2	CAL2	01/09/18 12:40		OK
3	STD3	STD3	CAL3	01/09/18 13:11		OK
4	STD4	STD4	CAL4	01/09/18 13:42		OK
5	STD5	STD5	CAL5	01/09/18 14:13		OK
6	STD6	STD6	CAL6	01/09/18 14:44		OK
7	STD7	STD7	CAL7	01/09/18 15:15		OK
8	ICV1	ICV1	ICV	01/09/18 16:48		OK
9	ICB1	ICB1	ICB	01/09/18 17:18		OK
10	CCV1	CCV1	CCV	01/18/18 10:36		OK
11	CCB1	CCB1	CCB	01/18/18 11:07		OK
12	LB92762BLW	LB92762BLW	MB	01/18/18 11:38		OK
13	LB92762BSW	LB92762BSW	LCS	01/18/18 13:24		OK
14	J1198-01	CELL-A-POOL-WATE	SAM	01/18/18 15:28		OK
15	J1198-02	CELL-B-C-POOL-WA	SAM	01/18/18 15:59		OK
16	J1198-03	CELL-D-POOL-WATE	SAM	01/18/18 16:29		OK
17	J1198-03DUP	CELL-D-POOL-WATE	DUP	01/18/18 17:00		OK
18	J1198-03MS	CELL-D-POOL-WATE	MS	01/18/18 17:31		OK
19	CCV2	CCV2	CCV	01/18/18 18:02		OK
20	CCB2	CCB2	CCB	01/18/18 18:33		OK



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Report of Analysis

Client:		Date Collected:	1/17/2018 12:00:00 AM
Project:	LB92762	Date Received:	1/18/2018 12:00:00 AM
Client Sample ID:	CELL-A-POOL-WATER(DE-IONIZED)	SDG No.:	LB92762
Lab Sample ID:	J1198-01	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		01/18/2018	300.0
	Chloride	0	U	1	0.075		0.15	mg/L		01/18/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		01/18/2018	300.0
	Nitrate	0.44		1	0.027		0.13	mg/L		01/18/2018	300.0
	Nitrite	0.2		1	0.022		0.15	mg/L		01/18/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		01/18/2018	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		01/18/2018	300.0



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Report of Analysis

Client:		Date Collected:	1/17/2018 12:00:00 AM
Project:	LB92762	Date Received:	1/18/2018 12:00:00 AM
Client Sample ID:	CELL-B-C-POOL-WATER(DE-IONIZED)	SDG No.:	LB92762
Lab Sample ID:	J1198-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	U	1	0.066		0.5	mg/L		01/18/2018	300.0
	Chloride	0.31		1	0.075		0.15	mg/L		01/18/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		01/18/2018	300.0
	Nitrate	0.53		1	0.027		0.13	mg/L		01/18/2018	300.0
	Nitrite	0.17		1	0.022		0.15	mg/L		01/18/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		01/18/2018	300.0
	Sulfate	0.89		1	0.13		0.75	mg/L		01/18/2018	300.0



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Report of Analysis

Client:		Date Collected:	1/17/2018 12:00:00 AM
Project:	LB92762	Date Received:	1/18/2018 12:00:00 AM
Client Sample ID:	CELL-D-POOL-WATER(DE-IONIZED)	SDG No.:	LB92762
Lab Sample ID:	J1198-03	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		01/18/2018	300.0
	Chloride	0.48		1	0.075		0.15	mg/L		01/18/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		01/18/2018	300.0
	Nitrate	0.48		1	0.027		0.13	mg/L		01/18/2018	300.0
	Nitrite	0.25		1	0.022		0.15	mg/L		01/18/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		01/18/2018	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		01/18/2018	300.0



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Report of Analysis

Client:		Date Collected:	1/17/2018 12:00:00 AM
Project:	LB92762	Date Received:	1/18/2018 12:00:00 AM
Client Sample ID:	CELL-D-POOL-WATER(DE-IONIZED)	SDG No.:	LB92762
Lab Sample ID:	J1198-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB92762

SDG No.: LB92762

Contract: _____ Lab Code: CHEM

Case No.: LB92762

SAS No.: LB92762

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	9.9	10	99		90 - 110		01/09/2018	16:48	LB92762
	Chloride	3	3	100		90 - 110		01/09/2018	16:48	LB92762
	Fluoride	2	2	100		90 - 110		01/09/2018	16:48	LB92762
	Phosphorus, Ortho	5.4	5	108		90 - 110		01/09/2018	16:48	LB92762
	Nitrite	3	3	100		90 - 110		01/09/2018	16:48	LB92762
	Nitrate	2.5	2.5	100		90 - 110		01/09/2018	16:48	LB92762
	Sulfate	14.7	15	98		90 - 110		01/09/2018	16:48	LB92762



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92762

SDG No.: LB92762

Contract: _____ Lab Code: CHEM

Case No.: LB92762

SAS No.: LB92762

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	9.6	10	96		90 - 110		01/18/2018	10:36	LB92762
	Chloride	3	3	100		90 - 110		01/18/2018	10:36	LB92762
	Fluoride	2.1	2	105		90 - 110		01/18/2018	10:36	LB92762
	Phosphorus, Ortho	5	5	100		90 - 110		01/18/2018	10:36	LB92762
	Nitrite	2.9	3	96.7		90 - 110		01/18/2018	10:36	LB92762
	Nitrate	2.3	2.5	92		90 - 110		01/18/2018	10:36	LB92762
	Sulfate	14.2	15	94.7		90 - 110		01/18/2018	10:36	LB92762
CCV2	Bromide	9.7	10	97		90 - 110		01/18/2018	18:02	LB92762
	Chloride	2.9	3	96.7		90 - 110		01/18/2018	18:02	LB92762
	Fluoride	2.1	2	105		90 - 110		01/18/2018	18:02	LB92762
	Phosphorus, Ortho	5.6	5	112	*	90 - 110		01/18/2018	18:02	LB92762
	Nitrite	2.9	3	96.7		90 - 110		01/18/2018	18:02	LB92762
	Nitrate	2.4	2.5	96		90 - 110		01/18/2018	18:02	LB92762
	Sulfate	14.5	15	96.7		90 - 110		01/18/2018	18:02	LB92762



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92762

SDG No.: LB92762

Contract: Lab Code: CHEM

Case No.: LB92762

SAS No.: LB92762

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		01/09/2018	17:18	LB92762
	Chloride	0.075	+/-0.15	U		0.15		01/09/2018	17:18	LB92762
	Fluoride	0.043	+/-0.1	U		0.1		01/09/2018	17:18	LB92762
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/09/2018	17:18	LB92762
	Nitrite	0.022	+/-0.15	U		0.15		01/09/2018	17:18	LB92762
	Nitrate	0.027	+/-0.13	U		0.13		01/09/2018	17:18	LB92762
	Sulfate	0.13	+/-0.75	U		0.75		01/09/2018	17:18	LB92762



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92762

SDG No.: LB92762

Contract:

Lab Code: CHEM

Case No.: LB92762

SAS No.: LB92762

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		01/18/2018	11:07	LB92762
	Chloride	0.075	+/-0.15	U		0.15		01/18/2018	11:07	LB92762
	Fluoride	0.043	+/-0.1	U		0.1		01/18/2018	11:07	LB92762
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/18/2018	11:07	LB92762
	Nitrite	0.022	+/-0.15	U		0.15		01/18/2018	11:07	LB92762
	Nitrate	0.027	+/-0.13	U		0.13		01/18/2018	11:07	LB92762
	Sulfate	0.13	+/-0.75	U		0.75		01/18/2018	11:07	LB92762
CCB2	Bromide	0.066	+/-0.5	U		0.5		01/18/2018	18:33	LB92762
	Chloride	0.075	+/-0.15	U		0.15		01/18/2018	18:33	LB92762
	Fluoride	0.043	+/-0.1	U		0.1		01/18/2018	18:33	LB92762
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/18/2018	18:33	LB92762
	Nitrite	0.022	+/-0.15	U		0.15		01/18/2018	18:33	LB92762
	Nitrate	0.027	+/-0.13	U		0.13		01/18/2018	18:33	LB92762
	Sulfate	0.13	+/-0.75	U		0.75		01/18/2018	18:33	LB92762



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92762

SDG No.: LB92762

Contract: Lab Code: CHEM

Case No.: LB92762

SAS No.: LB92762

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: LB92762

SDG No.: LB92762

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
LB92762BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		01/18/2018	11:38	LB92762
	Chloride	0.075	<0.15	U		0.15		01/18/2018	11:38	LB92762
	Fluoride	0.043	<0.1	U		0.1		01/18/2018	11:38	LB92762
	Phosphorus, Ortho	0.01	<0.25	U		0.25		01/18/2018	11:38	LB92762
	Nitrite	0.022	<0.15	U		0.15		01/18/2018	11:38	LB92762
	Nitrate	0.027	<0.13	U		0.13		01/18/2018	11:38	LB92762
	Sulfate	0.13	<0.75	U		0.75		01/18/2018	11:38	LB92762



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- 5a -
MATRIX SPIKE SUMMARY

client: LB92762 level: low sdg no.: LB92762
contract: lab code: CHEM case no.: LB92762 sas no.: LB92762
matrix: WATER sample id: J1198-03 client id: CELL-D-POOL-WATER(DE-IONIZED)MS
Percent Solids for Sample: 0 Spiked ID: J1198-03MS 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	9.9		0.066	U	10	99		
Chloride	mg/L	80 - 120	3.3		0.48		3	94		
Fluoride	mg/L	80 - 120	2.2		0.043	U	2	110		
Phosphorus, Ortho	mg/L	80 - 120	5.6		0.01	U	5	112		
Nitrite	mg/L	80 - 120	3.1		0.25		3	95		
Nitrate	mg/L	80 - 120	2.9		0.48		2.5	97		
Sulfate	mg/L	80 - 120	15.6		0.13	U	15	104		

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DUPLICATE SAMPLE SUMMARY

Client: LB92762 **Level:** LOW **SDG No.:** LB92762
Contract: _____ **Lab Code:** CHEM **Case No.:** LB92762 **SAS No.:** LB92762
Matrix: WATER **Sample ID:** J1198-03 **Client ID:** CELL-D-POOL-WATER(DE-IONIZED)DUP
Percent Solids for Sample: 0 **Duplicate ID** J1198-03DUP **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	0.48		0.47		2		
Fluoride	mg/L	20	0.043	U	0	U			
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.25		0.25		0		
Nitrate	mg/L	20	0.48		0.48		0		
Sulfate	mg/L	20	0.13	U	0	U			



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92762

SDG No.: LB92762

Contract:

Lab Code: CHEM

Case No.: LB92762

SAS No.: LB92762

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB92762BSW							
Bromide	mg/L	10	10.2		102	90 - 110	
Chloride	mg/L	3	3		100	90 - 110	
Fluoride	mg/L	2	1.9		95	90 - 110	
Phosphorus, Ortho	mg/L	5	5.2		104	90 - 110	
Nitrite	mg/L	3	3.1		103.3	90 - 110	
Nitrate	mg/L	2.5	2.5		100	90 - 110	
Sulfate	mg/L	15	14.8		98.7	90 - 110	
