

Daily Analysis Runlog For Sequence/QC Batch ID # LB93397

Review By

SubDirectory

Review On

Test : Anions

LB93397

STD. NAME		STD REF.#				
ICAL Standard		WP62070,WP62071,WP62072,WP62073,WP62074,WP62075,WP62076				
ICV Standard		WP62077				
CCV Standard		WP62072				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62077				
Chk Standard		WP61543,WP61544				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	02/19/18 11:21		OK
2	STD2	STD2	CAL2	02/19/18 11:52		OK
3	STD3	STD3	CAL3	02/19/18 12:23		OK
4	STD4	STD4	CAL4	02/19/18 12:54		OK
5	STD5	STD5	CAL5	02/19/18 13:25		OK
6	STD6	STD6	CAL6	02/19/18 13:56		OK
7	STD7	STD7	CAL7	02/19/18 14:27		OK
8	ICV1	ICV1	ICV	02/20/18 10:46		OK
9	ICB1	ICB1	ICB	02/20/18 11:28		OK
10	CCV1	CCV1	CCV	02/20/18 11:59		OK
11	CCB1	CCB1	CCB	02/20/18 12:30		OK
12	LB93397BLW	LB93397BLW	MB	02/20/18 13:01		OK
13	LB93397BSW	LB93397BSW	LCS	02/20/18 13:31		OK
14	J1621-01	CELL-D-POOL-WATE	SAM	02/20/18 14:02		OK
15	J1621-01DUP	CELL-D-POOL-WATE	DUP	02/20/18 14:33		OK
16	J1621-01MS	CELL-D-POOL-WATE	MS	02/20/18 15:04		OK
17	CCV2	CCV2	CCV	02/20/18 15:35		OK
18	CCB2	CCB2	CCB	02/20/18 16:06		OK



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB93397	Date Received:	2/20/2018 12:00:00 AM
Client Sample ID:	CELL-D-POOL-WATER(DE-IONIZED)	SDG No.:	LB93397
Lab Sample ID:	J1621-01	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		02/20/2018	300.0
	Chloride	0.15		1	0.075		0.15	mg/L		02/20/2018	300.0
	Fluoride	0.2		1	0.043		0.1	mg/L		02/20/2018	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		02/20/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		02/20/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		02/20/2018	300.0
	Sulfate	1.6		1	0.13		0.75	mg/L		02/20/2018	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB93397	Date Received:	2/20/2018 12:00:00 AM
Client Sample ID:	CELL-D-POOL-WATER(DE-IONIZED)	SDG No.:	LB93397
Lab Sample ID:	J1621-01	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



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93397

SDG No.: LB93397

Contract: _____ Lab Code: CHEM

Case No.: LB93397

SAS No.: LB93397

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	9.8	10	98		90 - 110		02/20/2018	10:46	LB93397
	Chloride	2.9	3	96.7		90 - 110		02/20/2018	10:46	LB93397
	Fluoride	2.1	2	105		90 - 110		02/20/2018	10:46	LB93397
	Phosphorus, Ortho	5	5	100		90 - 110		02/20/2018	10:46	LB93397
	Nitrite	3	3	100		90 - 110		02/20/2018	10:46	LB93397
	Nitrate	2.4	2.5	96		90 - 110		02/20/2018	10:46	LB93397
	Sulfate	15.4	15	102.7		90 - 110		02/20/2018	10:46	LB93397



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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93397

SDG No.: LB93397

Contract: _____ Lab Code: CHEM

Case No.: LB93397

SAS No.: LB93397

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	9.8	10	98		90 - 110		02/20/2018	11:59	LB93397
	Chloride	3	3	100		90 - 110		02/20/2018	11:59	LB93397
	Fluoride	2.1	2	105		90 - 110		02/20/2018	11:59	LB93397
	Phosphorus, Ortho	5.3	5	106		90 - 110		02/20/2018	11:59	LB93397
	Nitrite	3	3	100		90 - 110		02/20/2018	11:59	LB93397
	Nitrate	2.4	2.5	96		90 - 110		02/20/2018	11:59	LB93397
	Sulfate	14.7	15	98		90 - 110		02/20/2018	11:59	LB93397
CCV2	Bromide	9.8	10	98		90 - 110		02/20/2018	15:35	LB93397
	Chloride	3	3	100		90 - 110		02/20/2018	15:35	LB93397
	Fluoride	2.2	2	110		90 - 110		02/20/2018	15:35	LB93397
	Phosphorus, Ortho	5.4	5	108		90 - 110		02/20/2018	15:35	LB93397
	Nitrite	3	3	100		90 - 110		02/20/2018	15:35	LB93397
	Nitrate	2.4	2.5	96		90 - 110		02/20/2018	15:35	LB93397
	Sulfate	14.9	15	99.3		90 - 110		02/20/2018	15:35	LB93397



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93397

SDG No.: LB93397

Contract: Lab Code: CHEM

Case No.: LB93397

SAS No.: LB93397

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		02/20/2018	11:28	LB93397
	Chloride	0.075	+/-0.15	U		0.15		02/20/2018	11:28	LB93397
	Fluoride	0.043	+/-0.1	U		0.1		02/20/2018	11:28	LB93397
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		02/20/2018	11:28	LB93397
	Nitrite	0.022	+/-0.15	U		0.15		02/20/2018	11:28	LB93397
	Nitrate	0.027	+/-0.13	U		0.13		02/20/2018	11:28	LB93397
	Sulfate	0.13	+/-0.75	U		0.75		02/20/2018	11:28	LB93397

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		02/20/2018	12:30	LB93397
	Chloride	0.075	+/-0.15	U		0.15		02/20/2018	12:30	LB93397
	Fluoride	0.043	+/-0.1	U		0.1		02/20/2018	12:30	LB93397
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		02/20/2018	12:30	LB93397
	Nitrite	0.022	+/-0.15	U		0.15		02/20/2018	12:30	LB93397
	Nitrate	0.027	+/-0.13	U		0.13		02/20/2018	12:30	LB93397
	Sulfate	0.13	+/-0.75	U		0.75		02/20/2018	12:30	LB93397
CCB2	Bromide	0.066	+/-0.5	U		0.5		02/20/2018	16:06	LB93397
	Chloride	0.075	+/-0.15	U		0.15		02/20/2018	16:06	LB93397
	Fluoride	0.043	+/-0.1	U		0.1		02/20/2018	16:06	LB93397
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		02/20/2018	16:06	LB93397
	Nitrite	0.022	+/-0.15	U		0.15		02/20/2018	16:06	LB93397
	Nitrate	0.027	+/-0.13	U		0.13		02/20/2018	16:06	LB93397
	Sulfate	0.13	+/-0.75	U		0.75		02/20/2018	16:06	LB93397



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	LB93397	SDG No.:	LB93397				
Contract:		Lab Code:	CHEM	Case No.:	LB93397	SAS No.:	LB93397

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: LB93397

SDG No.: LB93397

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
LB93397BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		02/20/2018	13:01	LB93397
	Chloride	0.075	<0.15	U		0.15		02/20/2018	13:01	LB93397
	Fluoride	0.043	<0.1	U		0.1		02/20/2018	13:01	LB93397
	Phosphorus, Ortho	0.01	<0.25	U		0.25		02/20/2018	13:01	LB93397
	Nitrite	0.022	<0.15	U		0.15		02/20/2018	13:01	LB93397
	Nitrate	0.027	<0.13	U		0.13		02/20/2018	13:01	LB93397
	Sulfate	0.13	<0.75	U		0.75		02/20/2018	13:01	LB93397



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MATRIX SPIKE SUMMARY

client: LB93397 level: low sdg no.: LB93397
contract: _____ lab code: CHEM case no.: LB93397 sas no.: LB93397
matrix: WATER sample id: J1621-01 client id: CELL-D-POOL-WATER(DE-IONIZED)MS
Percent Solids for Sample: 0 Spiked ID: J1621-01MS 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	9.6		0.066	U	10	96		
Chloride	mg/L	80 - 120	3		0.15		3	95		
Fluoride	mg/L	80 - 120	2.5		0.2		2	115		
Phosphorus, Ortho	mg/L	80 - 120	5.5		0.01	U	5	110		
Nitrite	mg/L	80 - 120	2.9		0.022	U	3	96.7		
Nitrate	mg/L	80 - 120	2.4		0.027	U	2.5	96		
Sulfate	mg/L	80 - 120	15.2		1.6		15	91		

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DUPLICATE SAMPLE SUMMARY

Client: LB93397 **Level:** LOW **SDG No.:** LB93397
Contract: _____ **Lab Code:** CHEM **Case No.:** LB93397 **SAS No.:** LB93397
Matrix: WATER **Sample ID:** J1621-01 **Client ID:** CELL-D-POOL-WATER(DE-IONIZED)DUP
Percent Solids for Sample: 0 **Duplicate ID** J1621-01DUP **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	0.15		0.14	J	7		
Fluoride	mg/L	20	0.2		0.21		5		
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.022	U	0	U			
Nitrate	mg/L	20	0.027	U	0	U			
Sulfate	mg/L	20	1.6		1.6		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93397

SDG No.: LB93397

Contract:

Lab Code: CHEM

Case No.: LB93397

SAS No.: LB93397

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB93397BSW							
Bromide	mg/L	10	9.7		97	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Fluoride	mg/L	2	2		100	90 - 110	
Phosphorus, Ortho	mg/L	5	5.5		110	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	15		100	90 - 110	
