

Daily Analysis Runlog For Sequence/QC Batch ID # LB94525

Review By

SubDirectory

Review On

Test : Anions

LB94525

STD. NAME		STD REF.#				
ICAL Standard		wp62836,wp62837,wp62838,wp62839,wp62840,wp62841,wp62842,wp62843				
ICV Standard		wp62844				
CCV Standard		WP63620				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP63618				
Chk Standard		WP63116,WP63117				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	03/19/18 11:39		
2	STD2	STD2	CAL2	03/19/18 12:11		
3	STD3	STD3	CAL3	03/19/18 12:43		
4	STD4	STD4	CAL4	03/19/18 13:15		
5	STD5	STD5	CAL5	03/19/18 13:47		
6	STD6	STD6	CAL6	03/19/18 14:19		
7	STD7	STD7	CAL7	03/19/18 14:51		
8	ICV1	ICV1	ICV	03/19/18 16:27		
9	ICB1	ICB1	ICB	03/19/18 17:23		
10	CCV1	CCV1	CCV	04/11/18 10:19		
11	CCB1	CCB1	CCB	04/11/18 10:51		
12	LB94525BLW	LB94525BLW	MB	04/11/18 11:21		
13	LB94525BSW	LB94525BSW	LCS	04/11/18 12:29		
14	J2326-01	CELL-A-POOL-WATE	SAM	04/11/18 13:02		
15	J2326-02	CELL-B-C-POOL-WA	SAM	04/11/18 13:33		
16	J2326-03	CELL-D-POOL-WATE	SAM	04/11/18 14:04		
17	J2326-03DUP	CELL-D-POOL-WATE	DUP	04/11/18 14:35		
18	J2326-03MS	CELL-D-POOL-WATE	MS	04/11/18 15:06		
19	CCV2	CCV2	CCV	04/11/18 15:37		
20	CCB2	CCB2	CCB	04/11/18 16:08		



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Report of Analysis

Client:		Date Collected:	4/10/2018 12:00:00 AM
Project:	LB94525	Date Received:	4/11/2018 12:00:00 AM
Client Sample ID:	CELL-A-POOL-WATER(DE-IONIZED)	SDG No.:	LB94525
Lab Sample ID:	J2326-01	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		04/11/2018	300.0
	Chloride	0.19		1	0.075		0.15	mg/L		04/11/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		04/11/2018	300.0
	Nitrate	0.41		1	0.027		0.13	mg/L		04/11/2018	300.0
	Nitrite	0.17		1	0.022		0.15	mg/L		04/11/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/11/2018	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		04/11/2018	300.0



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Report of Analysis

Client:		Date Collected:	4/10/2018 12:00:00 AM
Project:	LB94525	Date Received:	4/11/2018 12:00:00 AM
Client Sample ID:	CELL-B-C-POOL-WATER(DE-IONIZED)	SDG No.:	LB94525
Lab Sample ID:	J2326-02	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		04/11/2018	300.0
	Chloride	0	U	1	0.075		0.15	mg/L		04/11/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		04/11/2018	300.0
	Nitrate	0.31		1	0.027		0.13	mg/L		04/11/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/11/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/11/2018	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		04/11/2018	300.0



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Report of Analysis

Client:		Date Collected:	4/10/2018 12:00:00 AM
Project:	LB94525	Date Received:	4/11/2018 12:00:00 AM
Client Sample ID:	CELL-D-POOL-WATER(DE-IONIZED)	SDG No.:	LB94525
Lab Sample ID:	J2326-03	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		04/11/2018	300.0
	Chloride	0.23		1	0.075		0.15	mg/L		04/11/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		04/11/2018	300.0
	Nitrate	0.16		1	0.027		0.13	mg/L		04/11/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/11/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/11/2018	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		04/11/2018	300.0



Report of Analysis

Client:		Date Collected:	4/10/2018 12:00:00 AM
Project:	LB94525	Date Received:	4/11/2018 12:00:00 AM
Client Sample ID:	CELL-D-POOL-WATER(DE-IONIZED)	SDG No.:	LB94525
Lab Sample ID:	J2326-03	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



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94525

SDG No.: LB94525

Contract: _____ Lab Code: CHEM

Case No.: LB94525

SAS No.: LB94525

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	9.7	10	97		90 - 110		03/19/2018	16:27	lb94525
	Chloride	2.9	3	96.7		90 - 110		03/19/2018	16:27	lb94525
	Fluoride	2	2	100		90 - 110		03/19/2018	16:27	lb94525
	Phosphorus, Ortho	5.3	5	106		90 - 110		03/19/2018	16:27	lb94525
	Nitrite	2.9	3	96.7		90 - 110		03/19/2018	16:27	lb94525
	Nitrate	2.4	2.5	96		90 - 110		03/19/2018	16:27	lb94525
	Sulfate	15.2	15	101.3		90 - 110		03/19/2018	16:27	lb94525



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94525

SDG No.: LB94525

Contract: _____ Lab Code: CHEM

Case No.: LB94525

SAS No.: LB94525

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	9.7	10	97		90 - 110		04/11/2018	10:19	lb94525
	Chloride	2.9	3	96.7		90 - 110		04/11/2018	10:19	lb94525
	Fluoride	1.9	2	95		90 - 110		04/11/2018	10:19	lb94525
	Phosphorus, Ortho	5.3	5	106		90 - 110		04/11/2018	10:19	lb94525
	Nitrite	2.8	3	93.3		90 - 110		04/11/2018	10:19	lb94525
	Nitrate	2.4	2.5	96		90 - 110		04/11/2018	10:19	lb94525
	Sulfate	14.3	15	95.3		90 - 110		04/11/2018	10:19	lb94525
CCV2	Bromide	10	10	100		90 - 110		04/11/2018	15:37	lb94525
	Chloride	3.1	3	103.3		90 - 110		04/11/2018	15:37	lb94525
	Fluoride	2	2	100		90 - 110		04/11/2018	15:37	lb94525
	Phosphorus, Ortho	5.3	5	106		90 - 110		04/11/2018	15:37	lb94525
	Nitrite	2.9	3	96.7		90 - 110		04/11/2018	15:37	lb94525
	Nitrate	2.4	2.5	96		90 - 110		04/11/2018	15:37	lb94525
	Sulfate	14.7	15	98		90 - 110		04/11/2018	15:37	lb94525

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		03/19/2018	17:23	lb94525
	Chloride	0.075	+/-0.15	U		0.15		03/19/2018	17:23	lb94525
	Fluoride	0.043	+/-0.1	U		0.1		03/19/2018	17:23	lb94525
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/19/2018	17:23	lb94525
	Nitrite	0.022	+/-0.15	U		0.15		03/19/2018	17:23	lb94525
	Nitrate	0.027	+/-0.13	U		0.13		03/19/2018	17:23	lb94525
	Sulfate	0.13	+/-0.75	U		0.75		03/19/2018	17:23	lb94525



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94525

SDG No.: LB94525

Contract:

Lab Code: CHEM

Case No.: LB94525

SAS No.: LB94525

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		04/11/2018	10:51	lb94525
	Chloride	0.075	+/-0.15	U		0.15		04/11/2018	10:51	lb94525
	Fluoride	0.043	+/-0.1	U		0.1		04/11/2018	10:51	lb94525
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/11/2018	10:51	lb94525
	Nitrite	0.022	+/-0.15	U		0.15		04/11/2018	10:51	lb94525
	Nitrate	0.027	+/-0.13	U		0.13		04/11/2018	10:51	lb94525
	Sulfate	0.13	+/-0.75	U		0.75		04/11/2018	10:51	lb94525
CCB2	Bromide	0.066	+/-0.5	U		0.5		04/11/2018	16:08	lb94525
	Chloride	0.075	+/-0.15	U		0.15		04/11/2018	16:08	lb94525
	Fluoride	0.043	+/-0.1	U		0.1		04/11/2018	16:08	lb94525
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/11/2018	16:08	lb94525
	Nitrite	0.022	+/-0.15	U		0.15		04/11/2018	16:08	lb94525
	Nitrate	0.027	+/-0.13	U		0.13		04/11/2018	16:08	lb94525
	Sulfate	0.13	+/-0.75	U		0.75		04/11/2018	16:08	lb94525



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	LB94525	SDG No.:	LB94525				
Contract:		Lab Code:	CHEM	Case No.:	LB94525	SAS No.:	LB94525

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: LB94525

SDG No.: LB94525

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
LB94525BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		04/11/2018	11:21	lb94525
	Chloride	0.075	<0.15	U		0.15		04/11/2018	11:21	lb94525
	Fluoride	0.043	<0.1	U		0.1		04/11/2018	11:21	lb94525
	Phosphorus, Ortho	0.01	<0.25	U		0.25		04/11/2018	11:21	lb94525
	Nitrite	0.022	<0.15	U		0.15		04/11/2018	11:21	lb94525
	Nitrate	0.027	<0.13	U		0.13		04/11/2018	11:21	lb94525
	Sulfate	0.13	<0.75	U		0.75		04/11/2018	11:21	lb94525



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MATRIX SPIKE SUMMARY

client: LB94525 level: low sdg no.: LB94525
contract: lab code: CHEM case no.: LB94525 sas no.: LB94525
matrix: WATER sample id: J2326-03 client id: CELL-D-POOL-WATER(DE-IONIZED)MS
Percent Solids for Sample: 0 Spiked ID: J2326-03MS 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	10.1		0.066	U	10	101		
Chloride	mg/L	80 - 120	3.1		0.23		3	96		
Fluoride	mg/L	80 - 120	2.1		0.043	U	2	105		
Phosphorus, Ortho	mg/L	80 - 120	5.3		0.01	U	5	106		
Nitrite	mg/L	80 - 120	2.9		0.022	U	3	96.7		
Nitrate	mg/L	80 - 120	2.5		0.16		2.5	94		
Sulfate	mg/L	80 - 120	15.5		0.13	U	15	103.3		

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DUPLICATE SAMPLE SUMMARY

Client: LB94525 **Level:** LOW **SDG No.:** LB94525
Contract: _____ **Lab Code:** CHEM **Case No.:** LB94525 **SAS No.:** LB94525
Matrix: WATER **Sample ID:** J2326-03 **Client ID:** CELL-D-POOL-WATER(DE-IONIZED)DUP
Percent Solids for Sample: 0 **Duplicate ID** J2326-03DUP **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	0.23		0.23		0		
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	0.16		0.16		0		
Sulfate	mg/L	20	0.13	U	0	U			



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94525

SDG No.: LB94525

Contract:

Lab Code: CHEM

Case No.: LB94525

SAS No.: LB94525

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB94525BSW							
Bromide	mg/L	10	9.4		94	90 - 110	
Chloride	mg/L	3	2.9		96.7	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	2.7		90	90 - 110	
Nitrate	mg/L	2.5	2.4		96	90 - 110	
Sulfate	mg/L	15	14.9		99.3	90 - 110	
