

Daily Analysis Runlog For Sequence/QC Batch ID # LB93762

Review By

Review On

SubDirectory

LB93762

Test :

Anions

STD. NAME	STD REF.#
ICAL Standard	WP61820,WP61821,WP61822,WP61823,WP61824,WP61825,WP61826
ICV Standard	WP61827
CCV Standard	wp62538
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	wp62539
Chk Standard	WP62458,WP62459

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	02/12/18 11:12		OK
2	STD2	STD2	CAL2	02/12/18 11:42		OK
3	STD3	STD3	CAL3	02/12/18 12:13		OK
4	STD4	STD4	CAL4	02/12/18 12:44		OK
5	STD5	STD5	CAL5	02/12/18 13:15		OK
6	STD6	STD6	CAL6	02/12/18 13:46		OK
7	STD7	STD7	CAL7	02/12/18 14:17		OK
8	ICV1	ICV1	ICV	02/12/18 15:55		OK
9	ICB1	ICB1	ICB	02/12/18 16:26		OK
10	CCV1	CCV1	CCV	03/08/18 11:40		OK
11	CCB1	CCB1	CCB	03/08/18 12:11		OK
12	LB93762BLW	LB93762BLW	MB	03/08/18 12:42		OK
13	LB93762BSW	LB93762BSW	LCS	03/08/18 13:13		OK
14	J1850-01	JS-SYSTEM	SAM	03/08/18 13:47		OK
15	J1851-01	MINI-CELL	SAM	03/08/18 14:18		OK
16	J1852-01	MINI-CELL	SAM	03/08/18 14:49		OK
17	J1852-01DUP	MINI-CELLDUP	DUP	03/08/18 15:20		OK
18	J1852-01MS	MINI-CELLMS	MS	03/08/18 15:51		OK
19	J1852-01MSD	MINI-CELLMSD	MSD	03/08/18 16:22		OK
20	CCV2	CCV2	CCV	03/08/18 16:53		OK
21	CCB2	CCB2	CCB	03/08/18 17:24		OK



Report of Analysis

Client:		Date Collected:	3/5/2018 12:00:00 AM
Project:	LB93762	Date Received:	3/8/2018 12:00:00 AM
Client Sample ID:	JS-SYSTEM	SDG No.:	LB93762
Lab Sample ID:	J1850-01	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		03/08/2018	300.0
	Chloride	0.36		1	0.075		0.15	mg/L		03/08/2018	300.0
	Fluoride	0.1		1	0.043		0.1	mg/L		03/08/2018	300.0
	Nitrate	0.41		1	0.027		0.13	mg/L		03/08/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		03/08/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		03/08/2018	300.0
	Sulfate	2.5		1	0.13		0.75	mg/L		03/08/2018	300.0



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Report of Analysis

Client:		Date Collected:	3/5/2018 12:00:00 AM
Project:	LB93762	Date Received:	3/8/2018 12:00:00 AM
Client Sample ID:	MINI-CELL	SDG No.:	LB93762
Lab Sample ID:	J1851-01	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		03/08/2018	300.0
	Chloride	0.46		1	0.075		0.15	mg/L		03/08/2018	300.0
	Fluoride	0.093	J	1	0.043		0.1	mg/L		03/08/2018	300.0
	Nitrate	0.31		1	0.027		0.13	mg/L		03/08/2018	300.0
	Nitrite	0.2		1	0.022		0.15	mg/L		03/08/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		03/08/2018	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		03/08/2018	300.0



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Report of Analysis

Client:		Date Collected:	3/7/2018 12:00:00 AM
Project:	LB93762	Date Received:	3/8/2018 12:00:00 AM
Client Sample ID:	MINI-CELL	SDG No.:	LB93762
Lab Sample ID:	J1852-01	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		03/08/2018	300.0
	Chloride	0.15		1	0.075		0.15	mg/L		03/08/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		03/08/2018	300.0
	Nitrate	0.14		1	0.027		0.13	mg/L		03/08/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		03/08/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		03/08/2018	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		03/08/2018	300.0



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Report of Analysis

Client:		Date Collected:	3/7/2018 12:00:00 AM
Project:	LB93762	Date Received:	3/8/2018 12:00:00 AM
Client Sample ID:	MINI-CELL	SDG No.:	LB93762
Lab Sample ID:	J1852-01	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: LB93762

SDG No.: LB93762

Contract: _____ Lab Code: CHEM

Case No.: LB93762

SAS No.: LB93762

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	9.5	10	95		90 - 110		02/12/2018	15:55	LB93762
	Chloride	2.8	3	93.3		90 - 110		02/12/2018	15:55	LB93762
	Fluoride	1.9	2	95		90 - 110		02/12/2018	15:55	LB93762
	Phosphorus, Ortho	5.2	5	104		90 - 110		02/12/2018	15:55	LB93762
	Nitrite	2.9	3	96.7		90 - 110		02/12/2018	15:55	LB93762
	Nitrate	2.4	2.5	96		90 - 110		02/12/2018	15:55	LB93762
	Sulfate	14.8	15	98.7		90 - 110		02/12/2018	15:55	LB93762



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93762

SDG No.: LB93762

Contract: _____ Lab Code: CHEM

Case No.: LB93762

SAS No.: LB93762

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	9.4	10	94		90 - 110		03/08/2018	11:40	LB93762
	Chloride	2.8	3	93.3		90 - 110		03/08/2018	11:40	LB93762
	Fluoride	1.8	2	90		90 - 110		03/08/2018	11:40	LB93762
	Phosphorus, Ortho	4.2	5	84	*	90 - 110		03/08/2018	11:40	LB93762
	Nitrite	2.8	3	93.3		90 - 110		03/08/2018	11:40	LB93762
	Nitrate	2.3	2.5	92		90 - 110		03/08/2018	11:40	LB93762
	Sulfate	13.2	15	88	*	90 - 110		03/08/2018	11:40	LB93762
CCV2	Bromide	9.5	10	95		90 - 110		03/08/2018	16:53	LB93762
	Chloride	2.8	3	93.3		90 - 110		03/08/2018	16:53	LB93762
	Fluoride	1.9	2	95		90 - 110		03/08/2018	16:53	LB93762
	Phosphorus, Ortho	4.5	5	90		90 - 110		03/08/2018	16:53	LB93762
	Nitrite	2.8	3	93.3		90 - 110		03/08/2018	16:53	LB93762
	Nitrate	2.4	2.5	96		90 - 110		03/08/2018	16:53	LB93762
	Sulfate	13.7	15	91.3		90 - 110		03/08/2018	16:53	LB93762

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		02/12/2018	16:26	LB93762
	Chloride	0.075	+/-0.15	U		0.15		02/12/2018	16:26	LB93762
	Fluoride	0.043	+/-0.1	U		0.1		02/12/2018	16:26	LB93762
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		02/12/2018	16:26	LB93762
	Nitrite	0.022	+/-0.15	U		0.15		02/12/2018	16:26	LB93762
	Nitrate	0.027	+/-0.13	U		0.13		02/12/2018	16:26	LB93762
	Sulfate	0.13	+/-0.75	U		0.75		02/12/2018	16:26	LB93762

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		03/08/2018	12:11	LB93762
	Chloride	0.075	+/-0.15	U		0.15		03/08/2018	12:11	LB93762
	Fluoride	0.043	+/-0.1	U		0.1		03/08/2018	12:11	LB93762
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/08/2018	12:11	LB93762
	Nitrite	0.022	+/-0.15	U		0.15		03/08/2018	12:11	LB93762
	Nitrate	0.027	+/-0.13	U		0.13		03/08/2018	12:11	LB93762
	Sulfate	0.13	+/-0.75	U		0.75		03/08/2018	12:11	LB93762
CCB2	Bromide	0.066	+/-0.5	U		0.5		03/08/2018	17:24	LB93762
	Chloride	0.075	+/-0.15	U		0.15		03/08/2018	17:24	LB93762
	Fluoride	0.043	+/-0.1	U		0.1		03/08/2018	17:24	LB93762
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/08/2018	17:24	LB93762
	Nitrite	0.022	+/-0.15	U		0.15		03/08/2018	17:24	LB93762
	Nitrate	0.027	+/-0.13	U		0.13		03/08/2018	17:24	LB93762
	Sulfate	0.13	+/-0.75	U		0.75		03/08/2018	17:24	LB93762



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	<u>LB93762</u>	SDG No.:	<u>LB93762</u>				
Contract:	<u> </u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>LB93762</u>	SAS No.:	<u>LB93762</u>

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

Client: LB93762

SDG No.: LB93762

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
LB93762BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		03/08/2018	12:42	LB93762
	Chloride	0.075	<0.15	U		0.15		03/08/2018	12:42	LB93762
	Fluoride	0.043	<0.1	U		0.1		03/08/2018	12:42	LB93762
	Phosphorus, Ortho	0.01	<0.25	U		0.25		03/08/2018	12:42	LB93762
	Nitrite	0.022	<0.15	U		0.15		03/08/2018	12:42	LB93762
	Nitrate	0.027	<0.13	U		0.13		03/08/2018	12:42	LB93762
	Sulfate	0.13	<0.75	U		0.75		03/08/2018	12:42	LB93762



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93762 level: low sdg no.: LB93762
contract: _____ lab code: CHEM case no.: LB93762 sas no.: LB93762
matrix: WATER sample id: J1852-01 client id: MINI-CELLMS
Percent Solids for Sample: 0 Spiked ID: J1852-01MS 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	10		0.066	U	10	100		
Chloride	mg/L	80 - 120	3		0.15		3	95		
Fluoride	mg/L	80 - 120	2.1		0.043	U	2	105		
Phosphorus, Ortho	mg/L	80 - 120	4.5		0.01	U	5	90		
Nitrite	mg/L	80 - 120	3		0.022	U	3	100		
Nitrate	mg/L	80 - 120	2.5		0.14		2.5	94		
Sulfate	mg/L	80 - 120	13.9		0.13	U	15	92.7		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93762 level: low sdg no.: LB93762
contract: lab code: CHEM case no.: LB93762 sas no.: LB93762
matrix: WATER sample id: J1852-01 client id: MINI-CELLMSD
Percent Solids for Sample: 0 Spiked ID: J1852-01MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD 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	2.9		0.15		3	92		
Fluoride	mg/L	80 - 120	1.9		0.043	U	2	95		
Phosphorus, Ortho	mg/L	80 - 120	4.3		0.01	U	5	86		
Nitrite	mg/L	80 - 120	2.8		0.022	U	3	93.3		
Nitrate	mg/L	80 - 120	2.4		0.14		2.5	90		
Sulfate	mg/L	80 - 120	13.3		0.13	U	15	88.7		

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DUPLICATE SAMPLE SUMMARY

Client: LB93762 **Level:** LOW **SDG No.:** LB93762
Contract: _____ **Lab Code:** CHEM **Case No.:** LB93762 **SAS No.:** LB93762
Matrix: WATER **Sample ID:** J1852-01 **Client ID:** MINI-CELLDUP
Percent Solids for Sample: 0 **Duplicate ID** J1852-01DUP **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	0.043	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	0.14		0.13		7		
Sulfate	mg/L	20	0.13	U	0	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB93762 **Level:** LOW **SDG No.:** LB93762
Contract: _____ **Lab Code:** CHEM **Case No.:** LB93762 **SAS No.:** LB93762
Matrix: WATER **Sample ID:** J1852-01MS **Client ID:** MINI-CELLMSD
Percent Solids for Sample: 0 **Duplicate ID** J1852-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bromide	mg/L	20	10		9.6		4		
Chloride	mg/L	20	3		2.9		3		
Fluoride	mg/L	20	2.1		1.9		10		
Phosphorus, Ortho	mg/L	20	4.5		4.3		5		
Nitrite	mg/L	20	3		2.8		7		
Nitrate	mg/L	20	2.5		2.4		4		
Sulfate	mg/L	20	13.9		13.3		4		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93762

SDG No.: LB93762

Contract:

Lab Code: CHEM

Case No.: LB93762

SAS No.: LB93762

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB93762BSW							
Bromide	mg/L	10	9.5		95	90 - 110	
Chloride	mg/L	3	2.8		93.3	90 - 110	
Fluoride	mg/L	2	1.9		95	90 - 110	
Phosphorus, Ortho	mg/L	5	4.4		88	90 - 110	
Nitrite	mg/L	3	2.8		93.3	90 - 110	
Nitrate	mg/L	2.5	2.4		96	90 - 110	
Sulfate	mg/L	15	13.9		92.7	90 - 110	