

Daily Analysis Runlog For Sequence/QC Batch ID # LB95863

Review By		Review On				
SubDirectory		LB95863		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP65006,WP65007,WP65008,WP65009,WP65010,WP65011,WP65012				
ICV Standard		WP65013				
CCV Standard		WP65084				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP65085				
Chk Standard		WP65018,WP64919				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	06/04/18 12:35		OK
2	STD2	STD2	CAL2	06/04/18 13:06		OK
3	STD3	STD3	CAL3	06/04/18 13:37		OK
4	STD4	STD4	CAL4	06/04/18 14:08		OK
5	STD5	STD5	CAL5	06/04/18 14:39		OK
6	STD6	STD6	CAL6	06/04/18 15:09		OK
7	STD7	STD7	CAL7	06/04/18 15:40		OK
8	ICV1	ICV1	ICV	06/04/18 17:13		OK
9	ICB1	ICB1	ICB	06/04/18 17:45		OK
10	CCV1	CCV1	CCV	06/06/18 08:09		OK
11	CCB1	CCB1	CCB	06/06/18 08:40		OK
12	LB95863BLW	LB95863BLW	MB	06/06/18 09:11		OK
13	LB95863BSW	LB95863BSW	LCS	06/06/18 09:42		OK
14	J3341-01	JS-SYSTEM	SAM	06/06/18 13:03		OK
15	J3341-01DUP	JS-SYSTEMDUP	DUP	06/06/18 13:34		OK
16	J3338-01	MINI-CELL	SAM	06/06/18 14:05		OK
17	J3341-01MS	JS-SYSTEMMS	MS	06/06/18 15:07		OK
18	J3341-01MSD	JS-SYSTEMMSD	MSD	06/06/18 15:41		OK
19	CCV2	CCV2	CCV	06/06/18 16:12		OK
20	CCB2	CCB2	CCB	06/06/18 16:43		OK



Report of Analysis

Client:		Date Collected:	6/4/2018 12:00:00 AM
Project:	LB95863	Date Received:	6/6/2018 12:00:00 AM
Client Sample ID:	MINI-CELL	SDG No.:	LB95863
Lab Sample ID:	J3338-01	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		06/06/2018	300.0
	Chloride	0.38		1	0.075		0.15	mg/L		06/06/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		06/06/2018	300.0
	Nitrate	0.32		1	0.027		0.13	mg/L		06/06/2018	300.0
	Nitrite	0.25		1	0.022		0.15	mg/L		06/06/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		06/06/2018	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		06/06/2018	300.0



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Report of Analysis

Client:		Date Collected:	6/5/2018 12:00:00 AM
Project:	LB95863	Date Received:	6/6/2018 12:00:00 AM
Client Sample ID:	JS-SYSTEM	SDG No.:	LB95863
Lab Sample ID:	J3341-01	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		06/06/2018	300.0
	Chloride	0	U	1	0.075		0.15	mg/L		06/06/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		06/06/2018	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		06/06/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		06/06/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		06/06/2018	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		06/06/2018	300.0



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Report of Analysis

Client:		Date Collected:	6/5/2018 12:00:00 AM
Project:	LB95863	Date Received:	6/6/2018 12:00:00 AM
Client Sample ID:	JS-SYSTEM	SDG No.:	LB95863
Lab Sample ID:	J3341-01	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: LB95863

SDG No.: LB95863

Contract: _____ Lab Code: CHEM

Case No.: LB95863

SAS No.: LB95863

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	9.6	10	96		90 - 110		06/04/2018	17:13	LB95863
	Chloride	2.9	3	96.7		90 - 110		06/04/2018	17:13	LB95863
	Fluoride	2	2	100		90 - 110		06/04/2018	17:13	LB95863
	Phosphorus, Ortho	5.4	5	108		90 - 110		06/04/2018	17:13	LB95863
	Nitrite	2.9	3	96.7		90 - 110		06/04/2018	17:13	LB95863
	Nitrate	2.4	2.5	96		90 - 110		06/04/2018	17:13	LB95863
	Sulfate	15.1	15	100.7		90 - 110		06/04/2018	17:13	LB95863



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95863

SDG No.: LB95863

Contract: Lab Code: CHEM

Case No.: LB95863

SAS No.: LB95863

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		06/04/2018	17:45	LB95863
	Chloride	0.075	+/-0.15	U		0.15		06/04/2018	17:45	LB95863
	Fluoride	0.043	+/-0.1	U		0.1		06/04/2018	17:45	LB95863
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		06/04/2018	17:45	LB95863
	Nitrite	0.022	+/-0.15	U		0.15		06/04/2018	17:45	LB95863
	Nitrate	0.027	+/-0.13	U		0.13		06/04/2018	17:45	LB95863
	Sulfate	0.13	+/-0.75	U		0.75		06/04/2018	17:45	LB95863

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		06/06/2018	08:40	LB95863
	Chloride	0.075	+/-0.15	U		0.15		06/06/2018	08:40	LB95863
	Fluoride	0.043	+/-0.1	U		0.1		06/06/2018	08:40	LB95863
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		06/06/2018	08:40	LB95863
	Nitrite	0.022	+/-0.15	U		0.15		06/06/2018	08:40	LB95863
	Nitrate	0.027	+/-0.13	U		0.13		06/06/2018	08:40	LB95863
	Sulfate	0.13	+/-0.75	U		0.75		06/06/2018	08:40	LB95863
CCB2	Bromide	0.066	+/-0.5	U		0.5		06/06/2018	16:43	LB95863
	Chloride	0.075	+/-0.15	U		0.15		06/06/2018	16:43	LB95863
	Fluoride	0.043	+/-0.1	U		0.1		06/06/2018	16:43	LB95863
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		06/06/2018	16:43	LB95863
	Nitrite	0.022	+/-0.15	U		0.15		06/06/2018	16:43	LB95863
	Nitrate	0.027	+/-0.13	U		0.13		06/06/2018	16:43	LB95863
	Sulfate	0.13	+/-0.75	U		0.75		06/06/2018	16:43	LB95863



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95863

SDG No.: LB95863

Contract: Lab Code: CHEM

Case No.: LB95863

SAS No.: LB95863

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: LB95863

SDG No.: LB95863

Instrument: IC-2

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB95863BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		06/06/2018	09:11	LB95863
	Chloride	0.075	<0.15	U		0.15		06/06/2018	09:11	LB95863
	Fluoride	0.043	<0.1	U		0.1		06/06/2018	09:11	LB95863
	Phosphorus, Ortho	0.01	<0.25	U		0.25		06/06/2018	09:11	LB95863
	Nitrite	0.022	<0.15	U		0.15		06/06/2018	09:11	LB95863
	Nitrate	0.027	<0.13	U		0.13		06/06/2018	09:11	LB95863
	Sulfate	0.13	<0.75	U		0.75		06/06/2018	09:11	LB95863



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MATRIX SPIKE SUMMARY

client: LB95863 level: low sdg no.: LB95863
contract: _____ lab code: CHEM case no.: LB95863 sas no.: LB95863
matrix: WATER sample id: J3341-01 client id: JS-SYSTEMMS
Percent Solids for Sample: 0 Spiked ID: J3341-01MS 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		0.075	U	3	100		
Fluoride	mg/L	80 - 120	2		0.043	U	2	100		
Phosphorus, Ortho	mg/L	80 - 120	4.8		0.01	U	5	96		
Nitrite	mg/L	80 - 120	3		0.022	U	3	100		
Nitrate	mg/L	80 - 120	2.5		0.027	U	2.5	100		
Sulfate	mg/L	80 - 120	15.5		0.13	U	15	103.3		



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MATRIX SPIKE DUPLICATE SUMMARY

client: LB95863 **level:** low **sdg no.:** LB95863
contract: **lab code:** CHEM **case no.:** LB95863 **sas no.:** LB95863
matrix: WATER **sample id:** J3341-01 **client id:** JS-SYSTEMMSD
Percent Solids for Sample: 0 **Spiked ID:** J3341-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance	MSD	Sample		Spike	%	Qual	M
		Limit %R	Result	C	Result	C	Added	Recovery	
Bromide	mg/L	80 - 120	10		0.066	U	10	100	
Chloride	mg/L	80 - 120	3		0.075	U	3	100	
Fluoride	mg/L	80 - 120	1.9		0.043	U	2	95	
Phosphorus, Ortho	mg/L	80 - 120	4.9		0.01	U	5	98	
Nitrite	mg/L	80 - 120	3		0.022	U	3	100	
Nitrate	mg/L	80 - 120	2.5		0.027	U	2.5	100	
Sulfate	mg/L	80 - 120	15.6		0.13	U	15	104	

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DUPLICATE SAMPLE SUMMARY

Client: LB95863 **Level:** LOW **SDG No.:** LB95863
Contract: **Lab Code:** CHEM **Case No.:** LB95863 **SAS No.:** LB95863
Matrix: WATER **Sample ID:** J3341-01 **Client ID:** JS-SYSTEMDUP
Percent Solids for Sample: 0 **Duplicate ID** J3341-01DUP **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	0.075	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	0.027	U	0	U			
Sulfate	mg/L	20	0.13	U	0	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB95863 **Level:** LOW **SDG No.:** LB95863
Contract: _____ **Lab Code:** CHEM **Case No.:** LB95863 **SAS No.:** LB95863
Matrix: WATER **Sample ID:** J3341-01MS **Client ID:** JS-SYSTEMMSD
Percent Solids for Sample: 0 **Duplicate ID** J3341-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bromide	mg/L	20	10		10		0		
Chloride	mg/L	20	3		3		0		
Fluoride	mg/L	20	2		1.9		5		
Phosphorus, Ortho	mg/L	20	4.8		4.9		2		
Nitrite	mg/L	20	3		3		0		
Nitrate	mg/L	20	2.5		2.5		0		
Sulfate	mg/L	20	15.5		15.6		1		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95863

SDG No.: LB95863

Contract: _____

Lab Code: CHEM

Case No.: LB95863

SAS No.: LB95863

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB95863BSW							
Bromide	mg/L	10	9.5		95	90 - 110	
Chloride	mg/L	3	2.8		93.3	90 - 110	
Fluoride	mg/L	2	2		100	90 - 110	
Phosphorus, Ortho	mg/L	5	5.1		102	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	14.8		98.7	90 - 110	
