

Daily Analysis Runlog For Sequence/QC Batch ID # LB95976

Review By		Review On				
SubDirectory		LB95976		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP65006,WP65007,WP65008,WP65009,WP65010,WP65011,WP65012				
ICV Standard		WP65013				
CCV Standard		WP65218				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP65219				
Chk Standard		WP65919,WP64018				
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	06/12/18 08:16		OK
11	CCB1	CCB1	CCB	06/12/18 08:47		OK
12	LB95976BLW	LB95976BLW	MB	06/12/18 09:18		OK
13	LB95976BSW	LB95976BSW	LCS	06/12/18 09:49		OK
14	J3445-01	MINI-CELL	SAM	06/12/18 11:20		OK
15	J3445-01DUP	MINI-CELLDUP	DUP	06/12/18 11:51		OK
16	J3450-01	POOL-WATER	SAM	06/12/18 12:22		OK
17	J3445-01MS	MINI-CELLMS	MS	06/12/18 12:53		OK
18	J3445-01MSD	MINI-CELLMSD	MSD	06/12/18 13:24		OK
19	CCV2	CCV2	CCV	06/12/18 13:55		OK
20	CCB2	CCB2	CCB	06/12/18 14:27		OK



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Report of Analysis

Client:		Date Collected:	6/7/2018 12:00:00 AM
Project:	LB95976	Date Received:	6/12/2018 12:00:00 AM
Client Sample ID:	MINI-CELL	SDG No.:	LB95976
Lab Sample ID:	J3445-01	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		06/12/2018	300.0
	Chloride	0.19		1	0.075		0.15	mg/L		06/12/2018	300.0
	Fluoride	0.067	J	1	0.043		0.1	mg/L		06/12/2018	300.0
	Nitrate	0.35		1	0.027		0.13	mg/L		06/12/2018	300.0
	Nitrite	0.25		1	0.022		0.15	mg/L		06/12/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		06/12/2018	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		06/12/2018	300.0



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Report of Analysis

Client:		Date Collected:	6/11/2018 12:00:00 AM
Project:	LB95976	Date Received:	6/12/2018 12:00:00 AM
Client Sample ID:	POOL-WATER	SDG No.:	LB95976
Lab Sample ID:	J3450-01	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		06/12/2018	300.0
	Chloride	0.4		1	0.075		0.15	mg/L		06/12/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		06/12/2018	300.0
	Nitrate	0.19		1	0.027		0.13	mg/L		06/12/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		06/12/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		06/12/2018	300.0
	Sulfate	1.5		1	0.13		0.75	mg/L		06/12/2018	300.0



Report of Analysis

Client:		Date Collected:	6/11/2018 12:00:00 AM
Project:	LB95976	Date Received:	6/12/2018 12:00:00 AM
Client Sample ID:	POOL-WATER	SDG No.:	LB95976
Lab Sample ID:	J3450-01	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: LB95976

SDG No.: LB95976

Contract: _____ Lab Code: CHEM

Case No.: LB95976

SAS No.: LB95976

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	lb95976
	Chloride	2.9	3	96.7		90 - 110		06/04/2018	17:13	lb95976
	Fluoride	2	2	100		90 - 110		06/04/2018	17:13	lb95976
	Phosphorus, Ortho	5.4	5	108		90 - 110		06/04/2018	17:13	lb95976
	Nitrite	2.9	3	96.7		90 - 110		06/04/2018	17:13	lb95976
	Nitrate	2.4	2.5	96		90 - 110		06/04/2018	17:13	lb95976
	Sulfate	15.1	15	100.7		90 - 110		06/04/2018	17:13	lb95976



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95976

SDG No.: LB95976

Contract: _____ Lab Code: CHEM

Case No.: LB95976

SAS No.: LB95976

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	9.9	10	99		90 - 110		06/12/2018	08:16	lb95976
	Chloride	2.9	3	96.7		90 - 110		06/12/2018	08:16	lb95976
	Fluoride	2	2	100		90 - 110		06/12/2018	08:16	lb95976
	Phosphorus, Ortho	4.8	5	96		90 - 110		06/12/2018	08:16	lb95976
	Nitrite	3	3	100		90 - 110		06/12/2018	08:16	lb95976
	Nitrate	2.4	2.5	96		90 - 110		06/12/2018	08:16	lb95976
	Sulfate	14.8	15	98.7		90 - 110		06/12/2018	08:16	lb95976
CCV2	Bromide	10	10	100		90 - 110		06/12/2018	13:55	lb95976
	Chloride	3	3	100		90 - 110		06/12/2018	13:55	lb95976
	Fluoride	2	2	100		90 - 110		06/12/2018	13:55	lb95976
	Phosphorus, Ortho	5.4	5	108		90 - 110		06/12/2018	13:55	lb95976
	Nitrite	3	3	100		90 - 110		06/12/2018	13:55	lb95976
	Nitrate	2.5	2.5	100		90 - 110		06/12/2018	13:55	lb95976
	Sulfate	14.8	15	98.7		90 - 110		06/12/2018	13:55	lb95976



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95976

SDG No.: LB95976

Contract:

Lab Code: CHEM

Case No.: LB95976

SAS No.: LB95976

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	lb95976
	Chloride	0.075	+/-0.15	U		0.15		06/04/2018	17:45	lb95976
	Fluoride	0.043	+/-0.1	U		0.1		06/04/2018	17:45	lb95976
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		06/04/2018	17:45	lb95976
	Nitrite	0.022	+/-0.15	U		0.15		06/04/2018	17:45	lb95976
	Nitrate	0.027	+/-0.13	U		0.13		06/04/2018	17:45	lb95976
	Sulfate	0.13	+/-0.75	U		0.75		06/04/2018	17:45	lb95976



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95976

SDG No.: LB95976

Contract:

Lab Code: CHEM

Case No.: LB95976

SAS No.: LB95976

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		06/12/2018	08:47	lb95976
	Chloride	0.075	+/-0.15	U		0.15		06/12/2018	08:47	lb95976
	Fluoride	0.043	+/-0.1	U		0.1		06/12/2018	08:47	lb95976
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		06/12/2018	08:47	lb95976
	Nitrite	0.022	+/-0.15	U		0.15		06/12/2018	08:47	lb95976
	Nitrate	0.027	+/-0.13	U		0.13		06/12/2018	08:47	lb95976
	Sulfate	0.13	+/-0.75	U		0.75		06/12/2018	08:47	lb95976
CCB2	Bromide	0.066	+/-0.5	U		0.5		06/12/2018	14:27	lb95976
	Chloride	0.075	+/-0.15	U		0.15		06/12/2018	14:27	lb95976
	Fluoride	0.043	+/-0.1	U		0.1		06/12/2018	14:27	lb95976
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		06/12/2018	14:27	lb95976
	Nitrite	0.022	+/-0.15	U		0.15		06/12/2018	14:27	lb95976
	Nitrate	0.027	+/-0.13	U		0.13		06/12/2018	14:27	lb95976
	Sulfate	0.13	+/-0.75	U		0.75		06/12/2018	14:27	lb95976



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95976

SDG No.: LB95976

Contract: Lab Code: CHEM

Case No.: LB95976

SAS No.: LB95976

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: LB95976

SDG No.: LB95976

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
LB95976BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		06/12/2018	09:18	lb95976
	Chloride	0.075	<0.15	U		0.15		06/12/2018	09:18	lb95976
	Fluoride	0.043	<0.1	U		0.1		06/12/2018	09:18	lb95976
	Phosphorus, Ortho	0.01	<0.25	U		0.25		06/12/2018	09:18	lb95976
	Nitrite	0.022	<0.15	U		0.15		06/12/2018	09:18	lb95976
	Nitrate	0.027	<0.13	U		0.13		06/12/2018	09:18	lb95976
	Sulfate	0.13	<0.75	U		0.75		06/12/2018	09:18	lb95976



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95976 level: low sdg no.: LB95976
contract: _____ lab code: CHEM case no.: LB95976 sas no.: LB95976
matrix: WATER sample id: J3445-01 client id: MINI-CELLMS
Percent Solids for Sample: 0 Spiked ID: J3445-01MS 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	9.8		0.066	U	10	98		
Chloride	mg/L	80 - 120	3		0.19		3	94		
Fluoride	mg/L	80 - 120	2.1		0.067	J	2	102		
Phosphorus, Ortho	mg/L	80 - 120	5.4		0.01	U	5	108		
Nitrite	mg/L	80 - 120	3		0.25		3	92		
Nitrate	mg/L	80 - 120	2.7		0.35		2.5	94		
Sulfate	mg/L	80 - 120	15.2		0.13	U	15	101.3		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95976 level: low sdg no.: LB95976
contract: lab code: CHEM case no.: LB95976 sas no.: LB95976
matrix: WATER sample id: J3445-01 client id: MINI-CELLMSD
Percent Solids for Sample: 0 Spiked ID: J3445-01MSD 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	9.5		0.066	U	10	95		
Chloride	mg/L	80 - 120	2.9		0.19		3	90		
Fluoride	mg/L	80 - 120	2		0.067	J	2	97		
Phosphorus, Ortho	mg/L	80 - 120	5.3		0.01	U	5	106		
Nitrite	mg/L	80 - 120	2.9		0.25		3	88		
Nitrate	mg/L	80 - 120	2.6		0.35		2.5	90		
Sulfate	mg/L	80 - 120	14.7		0.13	U	15	98		



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DUPLICATE SAMPLE SUMMARY

Client: LB95976 **Level:** LOW **SDG No.:** LB95976
Contract: **Lab Code:** CHEM **Case No.:** LB95976 **SAS No.:** LB95976
Matrix: WATER **Sample ID:** J3445-01 **Client ID:** MINI-CELLDUP
Percent Solids for Sample: 0 **Duplicate ID** J3445-01DUP **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	0.19		0.18		5		
Fluoride	mg/L	20	0.067	J	0.052	J	25	*	
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.25		0.26		4		
Nitrate	mg/L	20	0.35		0.34		3		
Sulfate	mg/L	20	0.13	U	0	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95976 **Level:** LOW **SDG No.:** LB95976
Contract: _____ **Lab Code:** CHEM **Case No.:** LB95976 **SAS No.:** LB95976
Matrix: WATER **Sample ID:** J3445-01MS **Client ID:** MINI-CELLMSD
Percent Solids for Sample: 0 **Duplicate ID** J3445-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bromide	mg/L	20	9.8		9.5		3		
Chloride	mg/L	20	3		2.9		3		
Fluoride	mg/L	20	2.1		2		5		
Phosphorus, Ortho	mg/L	20	5.4		5.3		2		
Nitrite	mg/L	20	3		2.9		3		
Nitrate	mg/L	20	2.7		2.6		4		
Sulfate	mg/L	20	15.2		14.7		3		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95976

SDG No.: LB95976

Contract:

Lab Code: CHEM

Case No.: LB95976

SAS No.: LB95976

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB95976BSW							
Bromide	mg/L	10	9.9		99	90 - 110	
Chloride	mg/L	3	3		100	90 - 110	
Fluoride	mg/L	2	2		100	90 - 110	
Phosphorus, Ortho	mg/L	5	5.4		108	90 - 110	
Nitrite	mg/L	3	3		100	90 - 110	
Nitrate	mg/L	2.5	2.5		100	90 - 110	
Sulfate	mg/L	15	15.6		104	90 - 110	
