

Daily Analysis Runlog For Sequence/QC Batch ID # LB89596

Review By		Review On				
SubDirectory		LB89596		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP57138,WP57139,WP57140,WP57141,WP57142,WP57143,WP57144				
ICV Standard		WP57145				
CCV Standard		WP57235				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP57236				
Chk Standard		WP57042,WP57005				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	08/11/17 10:27		OK
2	STD2	STD2	CAL2	08/11/17 10:56		OK
3	STD3	STD3	CAL3	08/11/17 11:25		OK
4	STD4	STD4	CAL4	08/11/17 11:54		OK
5	STD5	STD5	CAL5	08/11/17 12:23		OK
6	STD6	STD6	CAL6	08/11/17 12:52		OK
7	STD7	STD7	CAL7	08/11/17 13:21		OK
8	ICV1	ICV1	ICV	08/11/17 14:48		OK
9	ICB1	ICB1	ICB	08/11/17 15:16		OK
10	CCV1	CCV1	CCV	08/18/17 08:55		OK
11	CCB1	CCB1	CCB	08/18/17 09:28		OK
12	LB89596BLW	LB89596BLW	MB	08/18/17 10:53		OK
13	LB89596BSW	LB89596BSW	LCS	08/18/17 11:22		OK
14	I4887-01	CELL-A-POOL-WATE	SAM	08/18/17 13:48		OK
15	I4887-02	CELL-B-POOL-WATE	SAM	08/18/17 14:17		OK
16	I4887-03	CELL-C-POOL-WATE	SAM	08/18/17 14:46		OK
17	I4887-03DUP	CELL-C-POOL-WATE	DUP	08/18/17 15:15		OK
18	I4887-03MS	CELL-C-POOL-WATE	MS	08/18/17 15:44		OK
19	CCV2	CCV2	CCV	08/18/17 16:13		OK
20	CCB2	CCB2	CCB	08/18/17 16:46		OK



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Report of Analysis

Client:		Date Collected:	8/17/2017 12:00:00 AM
Project:	LB89596	Date Received:	8/18/2017 12:00:00 AM
Client Sample ID:	CELL-A-POOL-WATER	SDG No.:	LB89596
Lab Sample ID:	I4887-01	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		08/18/2017	300.0
	Chloride	0.18		1	0.075		0.15	mg/L		08/18/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		08/18/2017	300.0
	Nitrate	0.2		1	0.027		0.13	mg/L		08/18/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		08/18/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		08/18/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		08/18/2017	300.0



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Report of Analysis

Client:		Date Collected:	8/17/2017 12:00:00 AM
Project:	LB89596	Date Received:	8/18/2017 12:00:00 AM
Client Sample ID:	CELL-B-POOL-WATER	SDG No.:	LB89596
Lab Sample ID:	I4887-02	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		08/18/2017	300.0
	Chloride	0	U	1	0.075		0.15	mg/L		08/18/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		08/18/2017	300.0
	Nitrate	0.18		1	0.027		0.13	mg/L		08/18/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		08/18/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		08/18/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		08/18/2017	300.0



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Report of Analysis

Client:		Date Collected:	8/17/2017 12:00:00 AM
Project:	LB89596	Date Received:	8/18/2017 12:00:00 AM
Client Sample ID:	CELL-C-POOL-WATER	SDG No.:	LB89596
Lab Sample ID:	I4887-03	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		08/18/2017	300.0
	Chloride	0	U	1	0.075		0.15	mg/L		08/18/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		08/18/2017	300.0
	Nitrate	0.28		1	0.027		0.13	mg/L		08/18/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		08/18/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		08/18/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		08/18/2017	300.0



Report of Analysis

Client:		Date Collected:	8/17/2017 12:00:00 AM
Project:	LB89596	Date Received:	8/18/2017 12:00:00 AM
Client Sample ID:	CELL-C-POOL-WATER	SDG No.:	LB89596
Lab Sample ID:	I4887-03	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



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89596

SDG No.: LB89596

Contract: _____ Lab Code: CHEM

Case No.: LB89596

SAS No.: LB89596

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Bromide	10	10	100	0	90 - 110		08/11/2017	14:48	LB89596
	Chloride	3	3	100	0	90 - 110		08/11/2017	14:48	LB89596
	Fluoride	2.2	2	110	0	90 - 110		08/11/2017	14:48	LB89596
	Phosphorus, Ortho	5.5	5	110	0	90 - 110		08/11/2017	14:48	LB89596
	Nitrite	2.9	3	96.7	0	90 - 110		08/11/2017	14:48	LB89596
	Nitrate	2.5	2.5	100	0	90 - 110		08/11/2017	14:48	LB89596
	Sulfate	14.6	15	97.3	0	90 - 110		08/11/2017	14:48	LB89596



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89596

SDG No.: LB89596

Contract: _____ Lab Code: CHEM

Case No.: LB89596

SAS No.: LB89596

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Bromide	10.3	10	103	0	90 - 110		08/18/2017	08:55	LB89596
	Chloride	2.9	3	96.7	0	90 - 110		08/18/2017	08:55	LB89596
	Fluoride	2.1	2	105	0	90 - 110		08/18/2017	08:55	LB89596
	Phosphorus, Ortho	5.6	5	112	0	90 - 110		08/18/2017	08:55	LB89596
	Nitrite	2.9	3	96.7	0	90 - 110		08/18/2017	08:55	LB89596
	Nitrate	2.5	2.5	100	0	90 - 110		08/18/2017	08:55	LB89596
	Sulfate	14.9	15	99.3	0	90 - 110		08/18/2017	08:55	LB89596
CCV2	Bromide	10.2	10	102	0	90 - 110		08/18/2017	16:13	LB89596
	Chloride	3	3	100	0	90 - 110		08/18/2017	16:13	LB89596
	Fluoride	2.2	2	110	0	90 - 110		08/18/2017	16:13	LB89596
	Phosphorus, Ortho	6.6	5	132	0	90 - 110		08/18/2017	16:13	LB89596
	Nitrite	2.9	3	96.7	0	90 - 110		08/18/2017	16:13	LB89596
	Nitrate	2.5	2.5	100	0	90 - 110		08/18/2017	16:13	LB89596
	Sulfate	15	15	100	0	90 - 110		08/18/2017	16:13	LB89596



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89596

SDG No.: LB89596

Contract:

Lab Code: CHEM

Case No.: LB89596

SAS No.: LB89596

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		08/11/2017	15:16	LB89596
	Chloride	0.075	+/-0.15	U		0.15		08/11/2017	15:16	LB89596
	Fluoride	0.043	+/-0.1	U		0.1		08/11/2017	15:16	LB89596
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		08/11/2017	15:16	LB89596
	Nitrite	0.022	+/-0.15	U		0.15		08/11/2017	15:16	LB89596
	Nitrate	0.027	+/-0.13	U		0.13		08/11/2017	15:16	LB89596
	Sulfate	0.13	+/-0.75	U		0.75		08/11/2017	15:16	LB89596



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89596

SDG No.: LB89596

Contract:

Lab Code: CHEM

Case No.: LB89596

SAS No.: LB89596

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		08/18/2017	09:28	LB89596
	Chloride	0.075	+/-0.15	U		0.15		08/18/2017	09:28	LB89596
	Fluoride	0.043	+/-0.1	U		0.1		08/18/2017	09:28	LB89596
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		08/18/2017	09:28	LB89596
	Nitrite	0.022	+/-0.15	U		0.15		08/18/2017	09:28	LB89596
	Nitrate	0.027	+/-0.13	U		0.13		08/18/2017	09:28	LB89596
	Sulfate	0.13	+/-0.75	U		0.75		08/18/2017	09:28	LB89596
CCB2	Bromide	0.066	+/-0.5	U		0.5		08/18/2017	16:46	LB89596
	Chloride	0.075	+/-0.15	U		0.15		08/18/2017	16:46	LB89596
	Fluoride	0.043	+/-0.1	U		0.1		08/18/2017	16:46	LB89596
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		08/18/2017	16:46	LB89596
	Nitrite	0.022	+/-0.15	U		0.15		08/18/2017	16:46	LB89596
	Nitrate	0.027	+/-0.13	U		0.13		08/18/2017	16:46	LB89596
	Sulfate	0.13	+/-0.75	U		0.75		08/18/2017	16:46	LB89596



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB89596

SDG No.:

LB89596

Contract:

Lab Code:

CHEM

Case No.:

LB89596

SAS No.:

LB89596

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: LB89596

SDG No.: LB89596

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
LB89596BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		08/18/2017	10:53	LB89596
	Chloride	0.075	<0.15	U		0.15		08/18/2017	10:53	LB89596
	Fluoride	0.043	<0.1	U		0.1		08/18/2017	10:53	LB89596
	Phosphorus, Ortho	0.01	<0.25	U		0.25		08/18/2017	10:53	LB89596
	Nitrite	0.022	<0.15	U		0.15		08/18/2017	10:53	LB89596
	Nitrate	0.027	<0.13	U		0.13		08/18/2017	10:53	LB89596
	Sulfate	0.13	<0.75	U		0.75		08/18/2017	10:53	LB89596



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- 5a -
MATRIX SPIKE SUMMARY

client: LB89596 level: low sdg no.: LB89596
contract: lab code: CHEM case no.: LB89596 sas no.: LB89596
matrix: WATER sample id: I4887-03 client id: CELL-C-POOL-WATERMS
Percent Solids for Sample: 0 Spiked ID: I4887-03MS 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	10.5		0.066	U	10	105		
Chloride	mg/L	80 - 120	4.2		0.075	U	3	140	*	
Fluoride	mg/L	80 - 120	2.3		0.043	U	2	115		
Phosphorus, Ortho	mg/L	80 - 120	6.5		0.01	U	5	130	*	
Nitrite	mg/L	80 - 120	3.1		0.022	U	3	103.3		
Nitrate	mg/L	80 - 120	2.7		0.28		2.5	97		
Sulfate	mg/L	80 - 120	15.5		0.13	U	15	103.3		

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DUPLICATE SAMPLE SUMMARY

Client:	<u>LB89596</u>	Level:	<u>LOW</u>	SDG No.:	<u>LB89596</u>		
Contract:	<u></u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>LB89596</u>	SAS No.:	<u>LB89596</u>
Matrix:	<u>WATER</u>	Sample ID:	<u>I4887-03</u>	Client ID:	<u>CELL-C-POOL-WATERDUP</u>		
Percent Solids for Sample:	0	Duplicate ID	I4887-03DUP	Percent Solids for Spike Sample:	0		

Analyte	Units	Acceptance	Sample	Duplicate		RPD	Qual	M
		Limit	Result	C	Result			
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	0.28		0.27		4	
Sulfate	mg/L	20	0.13	U	0	U		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89596

SDG No.: LB89596

Contract:

Lab Code: CHEM

Case No.: LB89596

SAS No.: LB89596

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB89596BSW							
Bromide	mg/L	10	10		100	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Fluoride	mg/L	2	2.1		105	90 - 110	
Phosphorus, Ortho	mg/L	5	6		120	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	
Nitrate	mg/L	2.5	2.5		100	90 - 110	
Sulfate	mg/L	15	14.6		97.3	90 - 110	
