

Daily Analysis Runlog For Sequence/QC Batch ID # LB90309

Review By		Review On				
SubDirectory		LB90309		Test : Anions		

STD. NAME	STD REF.#
ICAL Standard	WP57962,WP57963,WP57964,WP57965,WP57966,WP57967,WP57968
ICV Standard	WP57969
CCV Standard	WP58207
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP58208
Chk Standard	WP57970,WP57732

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	09/18/17 11:14		OK
2	STD2	STD2	CAL2	09/18/17 11:43		OK
3	STD3	STD3	CAL3	09/18/17 12:12		OK
4	STD4	STD4	CAL4	09/18/17 12:41		OK
5	STD5	STD5	CAL5	09/18/17 13:10		OK
6	STD6	STD6	CAL6	09/18/17 13:39		OK
7	STD7	STD7	CAL7	09/18/17 14:08		OK
8	ICV1	ICV1	ICV	09/18/17 15:34		OK
9	ICB1	ICB1	ICB	09/18/17 16:03		OK
10	CCV1	CCV1	CCV	09/22/17 13:55		OK
11	CCB1	CCB1	CCB	09/22/17 14:25		OK
12	LB90309BLW	LB90309BLW	MB	09/22/17 15:59		OK
13	LB90309BSW	LB90309BSW	LCS	09/22/17 16:29		OK
14	I5383-01	CELL-POOL-WATER	SAM	09/22/17 17:29		OK
15	I5383-01DUP	CELL-POOL-WATER	DUP	09/22/17 18:03		OK
16	I5383-01MS	CELL-POOL-WATER	MS	09/22/17 18:33		OK
17	CCV2	CCV2	CCV	09/22/17 19:03		OK
18	CCB2	CCB2	CCB	09/22/17 19:33		OK



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	9/21/2017 12:00:00 AM
Project:	LB90309	Date Received:	9/22/2017 12:00:00 AM
Client Sample ID:	CELL-POOL-WATER	SDG No.:	LB90309
Lab Sample ID:	I5383-01	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		09/22/2017	300.0
	Chloride	0	U	1	0.075		0.15	mg/L		09/22/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		09/22/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		09/22/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		09/22/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		09/22/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		09/22/2017	300.0



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	9/21/2017 12:00:00 AM
Project:	LB90309	Date Received:	9/22/2017 12:00:00 AM
Client Sample ID:	CELL-POOL-WATER	SDG No.:	LB90309
Lab Sample ID:	I5383-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
-----	-----------	-------	------	----	-----	-----	------------	-------	-----------	-----------	----------

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: LB90309

SDG No.: LB90309

Contract: _____ Lab Code: CHEM

Case No.: LB90309

SAS No.: LB90309

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		09/18/2017	15:34	LB90309
	Chloride	2.9	3	96.7	0	90 - 110		09/18/2017	15:34	LB90309
	Fluoride	2	2	100	0	90 - 110		09/18/2017	15:34	LB90309
	Phosphorus, Ortho	4.8	5	96	0	90 - 110		09/18/2017	15:34	LB90309
	Nitrite	2.9	3	96.7	0	90 - 110		09/18/2017	15:34	LB90309
	Nitrate	2.5	2.5	100	0	90 - 110		09/18/2017	15:34	LB90309
	Sulfate	14.3	15	95.3	0	90 - 110		09/18/2017	15:34	LB90309

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		09/18/2017	16:03	LB90309
	Chloride	0.075	+/-0.15	U		0.15		09/18/2017	16:03	LB90309
	Fluoride	0.043	+/-0.1	U		0.1		09/18/2017	16:03	LB90309
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		09/18/2017	16:03	LB90309
	Nitrite	0.022	+/-0.15	U		0.15		09/18/2017	16:03	LB90309
	Nitrate	0.027	+/-0.13	U		0.13		09/18/2017	16:03	LB90309
	Sulfate	0.13	+/-0.75	U		0.75		09/18/2017	16:03	LB90309

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		09/22/2017	14:25	LB90309
	Chloride	0.075	+/-0.15	U		0.15		09/22/2017	14:25	LB90309
	Fluoride	0.043	+/-0.1	U		0.1		09/22/2017	14:25	LB90309
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		09/22/2017	14:25	LB90309
	Nitrite	0.022	+/-0.15	U		0.15		09/22/2017	14:25	LB90309
	Nitrate	0.027	+/-0.13	U		0.13		09/22/2017	14:25	LB90309
	Sulfate	0.13	+/-0.75	U		0.75		09/22/2017	14:25	LB90309
CCB2	Bromide	0.066	+/-0.5	U		0.5		09/22/2017	19:33	LB90309
	Chloride	0.075	+/-0.15	U		0.15		09/22/2017	19:33	LB90309
	Fluoride	0.043	+/-0.1	U		0.1		09/22/2017	19:33	LB90309
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		09/22/2017	19:33	LB90309
	Nitrite	0.022	+/-0.15	U		0.15		09/22/2017	19:33	LB90309
	Nitrate	0.027	+/-0.13	U		0.13		09/22/2017	19:33	LB90309
	Sulfate	0.13	+/-0.75	U		0.75		09/22/2017	19:33	LB90309



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB90309

SDG No.:

LB90309

Contract:

Lab Code:

CHEM

Case No.:

LB90309

SAS No.:

LB90309

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
-----------	---------	----------------	---------------------	--------------	-----	------	---	------------------	------------------	---------------



GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB90309

SDG No.: LB90309

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
LB90309BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		09/22/2017	15:59	LB90309
	Chloride	0.075	<0.15	U		0.15		09/22/2017	15:59	LB90309
	Fluoride	0.043	<0.1	U		0.1		09/22/2017	15:59	LB90309
	Phosphorus, Ortho	0.01	<0.25	U		0.25		09/22/2017	15:59	LB90309
	Nitrite	0.022	<0.15	U		0.15		09/22/2017	15:59	LB90309
	Nitrate	0.027	<0.13	U		0.13		09/22/2017	15:59	LB90309
	Sulfate	0.13	<0.75	U		0.75		09/22/2017	15:59	LB90309



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90309 level: low sdg no.: LB90309
contract: lab code: CHEM case no.: LB90309 sas no.: LB90309
matrix: WATER sample id: I5383-01 client id: CELL-POOL-WATERMS
Percent Solids for Sample: 0 Spiked ID: I5383-01MS 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	10.1		0.066	U	10	101		
Chloride	mg/L	80 - 120	3.3		0.075	U	3	110		
Fluoride	mg/L	80 - 120	2		0.043	U	2	100		
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	2.4		0.027	U	2.5	96		
Sulfate	mg/L	80 - 120	14.5		0.13	U	15	96.7		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90309 **Level:** LOW **SDG No.:** LB90309
Contract: **Lab Code:** CHEM **Case No.:** LB90309 **SAS No.:** LB90309
Matrix: WATER **Sample ID:** I5383-01 **Client ID:** CELL-POOL-WATERDUP
Percent Solids for Sample: 0 **Duplicate ID** I5383-01DUP **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			



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90309

SDG No.: LB90309

Contract:

Lab Code: CHEM

Case No.: LB90309

SAS No.: LB90309

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB90309BSW							
Bromide	mg/L	10	9.8		98	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	4.8		96	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	
Nitrate	mg/L	2.5	2.4		96	90 - 110	
Sulfate	mg/L	15	14.1		94	90 - 110	
