

Daily Analysis Runlog For Sequence/QC Batch ID # LB90291

Review By		Review On				
SubDirectory		LB90291		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	09/25/17 12:23		OK
11	CCB1	CCB1	CCB	09/25/17 12:53		OK
12	LB90291BLW	LB90291BLW	MB	09/25/17 13:23		OK
13	LB90291BSW	LB90291BSW	LCS	09/25/17 13:53		OK
14	I5413-01	POOLWATER	SAM	09/25/17 14:23		OK
15	I5413-01DUP	POOLWATERDUP	DUP	09/25/17 14:53		OK
16	I5413-01MS	POOLWATERMS	MS	09/25/17 15:23		OK
17	CCV2	CCV2	CCV	09/25/17 15:53		OK
18	CCB2	CCB2	CCB	09/25/17 16:23		OK



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

Report of Analysis

Client:		Date Collected:	9/7/2017 12:00:00 AM
Project:	lb90291	Date Received:	9/25/2017 12:00:00 AM
Client Sample ID:	POOLWATER	SDG No.:	lb90291
Lab Sample ID:	I5413-01	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		09/25/2017	300.0
	Chloride	0.31		1	0.075		0.15	mg/L		09/25/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		09/25/2017	300.0
	Nitrate	0.35		1	0.027		0.13	mg/L		09/25/2017	300.0
	Nitrite	0.12	J	1	0.022		0.15	mg/L		09/25/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		09/25/2017	300.0
	Sulfate	0.88		1	0.13		0.75	mg/L		09/25/2017	300.0



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Report of Analysis

Client:		Date Collected:	9/7/2017 12:00:00 AM
Project:	lb90291	Date Received:	9/25/2017 12:00:00 AM
Client Sample ID:	POOLWATER	SDG No.:	lb90291
Lab Sample ID:	I5413-01	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: LB90291

SDG No.: LB90291

Contract: _____ Lab Code: CHEM

Case No.: LB90291

SAS No.: LB90291

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	LB90291
	Chloride	2.9	3	96.7	0	90 - 110		09/18/2017	15:34	LB90291
	Fluoride	2	2	100	0	90 - 110		09/18/2017	15:34	LB90291
	Phosphorus, Ortho	4.8	5	96	0	90 - 110		09/18/2017	15:34	LB90291
	Nitrite	2.9	3	96.7	0	90 - 110		09/18/2017	15:34	LB90291
	Nitrate	2.5	2.5	100	0	90 - 110		09/18/2017	15:34	LB90291
	Sulfate	14.3	15	95.3	0	90 - 110		09/18/2017	15:34	LB90291



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90291

SDG No.: LB90291

Contract: _____ Lab Code: CHEM

Case No.: LB90291

SAS No.: LB90291

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	9.6	10	96	0	90 - 110		09/25/2017	12:23	LB90291
	Chloride	2.8	3	93.3	0	90 - 110		09/25/2017	12:23	LB90291
	Fluoride	2.1	2	105	0	90 - 110		09/25/2017	12:23	LB90291
	Phosphorus, Ortho	3.8	5	76	0	90 - 110		09/25/2017	12:23	LB90291
	Nitrite	2.9	3	96.7	0	90 - 110		09/25/2017	12:23	LB90291
	Nitrate	2.3	2.5	92	0	90 - 110		09/25/2017	12:23	LB90291
	Sulfate	13.7	15	91.3	0	90 - 110		09/25/2017	12:23	LB90291
CCV2	Bromide	9.7	10	97	0	90 - 110		09/25/2017	15:53	LB90291
	Chloride	2.8	3	93.3	0	90 - 110		09/25/2017	15:53	LB90291
	Fluoride	1.9	2	95	0	90 - 110		09/25/2017	15:53	LB90291
	Phosphorus, Ortho	4.8	5	96	0	90 - 110		09/25/2017	15:53	LB90291
	Nitrite	2.9	3	96.7	0	90 - 110		09/25/2017	15:53	LB90291
	Nitrate	2.4	2.5	96	0	90 - 110		09/25/2017	15:53	LB90291
	Sulfate	14.2	15	94.7	0	90 - 110		09/25/2017	15:53	LB90291



GENCHEM

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: lb90291

SDG No.: lb90291

Contract: Lab Code: CHEM

Case No.: lb90291

SAS No.: 1b90291

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	LB90291
	Chloride	0.075	+/-0.15	U		0.15		09/18/2017	16:03	LB90291
	Fluoride	0.043	+/-0.1	U		0.1		09/18/2017	16:03	LB90291
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		09/18/2017	16:03	LB90291
	Nitrite	0.022	+/-0.15	U		0.15		09/18/2017	16:03	LB90291
	Nitrate	0.027	+/-0.13	U		0.13		09/18/2017	16:03	LB90291
	Sulfate	0.13	+/-0.75	U		0.75		09/18/2017	16:03	LB90291



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: lb90291

SDG No.: 1b90291

Contract:

Lab Code: CHEM

Case No.: 1b90291

SAS No.: 1b90291

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		09/25/2017	12:53	LB90291
	Chloride	0.075	+/-0.15	U		0.15		09/25/2017	12:53	LB90291
	Fluoride	0.043	+/-0.1	U		0.1		09/25/2017	12:53	LB90291
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		09/25/2017	12:53	LB90291
	Nitrite	0.022	+/-0.15	U		0.15		09/25/2017	12:53	LB90291
	Nitrate	0.027	+/-0.13	U		0.13		09/25/2017	12:53	LB90291
	Sulfate	0.13	+/-0.75	U		0.75		09/25/2017	12:53	LB90291
CCB2	Bromide	0.066	+/-0.5	U		0.5		09/25/2017	16:23	LB90291
	Chloride	0.075	+/-0.15	U		0.15		09/25/2017	16:23	LB90291
	Fluoride	0.043	+/-0.1	U		0.1		09/25/2017	16:23	LB90291
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		09/25/2017	16:23	LB90291
	Nitrite	0.022	+/-0.15	U		0.15		09/25/2017	16:23	LB90291
	Nitrate	0.027	+/-0.13	U		0.13		09/25/2017	16:23	LB90291
	Sulfate	0.13	+/-0.75	U		0.75		09/25/2017	16:23	LB90291



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

lb90291

SDG No.:

lb90291

Contract:

Lab Code:

CHEM

Case No.:

lb90291

SAS No.:

lb90291

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

Client: lb90291

SDG No.: lb90291

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
LB90291BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		09/25/2017	13:23	LB90291
	Chloride	0.075	<0.15	U		0.15		09/25/2017	13:23	LB90291
	Fluoride	0.043	<0.1	U		0.1		09/25/2017	13:23	LB90291
	Phosphorus, Ortho	0.01	<0.25	U		0.25		09/25/2017	13:23	LB90291
	Nitrite	0.022	<0.15	U		0.15		09/25/2017	13:23	LB90291
	Nitrate	0.027	<0.13	U		0.13		09/25/2017	13:23	LB90291
	Sulfate	0.13	<0.75	U		0.75		09/25/2017	13:23	LB90291



GENCHEM
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MATRIX SPIKE SUMMARY

client: lb90291 level: low sdg no.: lb90291
contract: lab code: CHEM case no.: lb90291 sas no.: lb90291
matrix: WATER sample id: I5413-01 client id: POOLWATERMS
Percent Solids for Sample: 0 Spiked ID: I5413-01MS 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	9.9		0.066	U	10	99		
Chloride	mg/L	80 - 120	3.3		0.31		3	100		
Fluoride	mg/L	80 - 120	2		0.043	U	2	100		
Phosphorus, Ortho	mg/L	80 - 120	5.3		0.01	U	5	106		
Nitrite	mg/L	80 - 120	2.9		0.12	J	3	93		
Nitrate	mg/L	80 - 120	2.7		0.35		2.5	94		
Sulfate	mg/L	80 - 120	14.8		0.88		15	93		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: lb90291 **Level:** LOW **SDG No.:** lb90291
Contract: **Lab Code:** CHEM **Case No.:** lb90291 **SAS No.:** lb90291
Matrix: WATER **Sample ID:** I5413-01 **Client ID:** POOLWATERDUP
Percent Solids for Sample: 0 **Duplicate ID** I5413-01DUP **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	0.31		0.32		3		
Fluoride	mg/L	20	0.043	U	0	U			
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.12	J	0.12	J	0		
Nitrate	mg/L	20	0.35		0.35		0		
Sulfate	mg/L	20	0.88		0.91		3		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: lb90291

SDG No.: lb90291

Contract: _____

Lab Code: CHEM

Case No.: lb90291

SAS No.: lb90291

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB90291BSW							
Bromide	mg/L	10	9.7		97	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Fluoride	mg/L	2	1.9		95	90 - 110	
Phosphorus, Ortho	mg/L	5	4.9		98	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	14.3		95.3	90 - 110	
