

Daily Analysis Runlog For Sequence/QC Batch ID # LB92792

Review By

Review On

SubDirectory

LB92792

Test :

Anions

STD. NAME		STD REF.#				
ICAL Standard		WP60658,WP60659,WP60660,WP60661,WP60662,WP60663,WP60664				
ICV Standard		WP60665				
CCV Standard		WP61151				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP61156				
Chk Standard		WP60666,WP60668				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	01/02/18 10:46		OK
2	STD2	STD2	CAL2	01/02/18 11:17		OK
3	STD3	STD3	CAL3	01/02/18 11:48		OK
4	STD4	STD4	CAL4	01/02/18 12:19		OK
5	STD5	STD5	CAL5	01/02/18 12:50		OK
6	STD6	STD6	CAL6	01/02/18 13:21		OK
7	STD7	STD7	CAL7	01/02/18 13:52		OK
8	ICV1	ICV1	ICV	01/02/18 16:30		OK
9	ICB1	ICB1	ICB	01/02/18 17:01		OK
10	CCV1	CCV1	CCV	01/22/18 10:40		OK
11	CCB1	CCB1	CCB	01/22/18 11:11		OK
12	LB92792BLW	LB92792BLW	MB	01/22/18 11:42		OK
13	LB92792BSW	LB92792BSW	LCS	01/22/18 12:13		OK
14	J1264-01	2-AVE-09	SAM	01/22/18 12:47		OK
15	J1264-01DUP	2-AVE-09DUP	DUP	01/22/18 13:18		OK
16	J1264-01MS	2-AVE-09MS	MS	01/22/18 13:49		OK
17	CCV2	CCV2	CCV	01/22/18 14:20		OK
18	CCB2	CCB2	CCB	01/22/18 15:28		OK
19	CCV3	CCV3	CCV	01/22/18 21:40		OK
20	CCB3	CCB3	CCB	01/22/18 22:11		OK
21	J1262-01	BELL-0118	SAM	01/22/18 22:42		OK



Instrument ID : IC-2

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Daily Analysis Runlog For Sequence/QC Batch ID # LB92792

Review By		Review On				
SubDirectory		Test : Anions				
LB92792						
STD. NAME	STD REF.#					
ICAL Standard	WP60658,WP60659,WP60660,WP60661,WP60662,WP60663,WP60664					
ICV Standard	WP60665					
CCV Standard	WP61151					
ICSA Standard	N/A					
CRI Standard	N/A					
LCS Standard	WP61156					
Chk Standard	WP60666,WP60668					
22	CCV4	CCV4	CCV	01/22/18 23:13		OK
23	CCB4	CCB4	CCB	01/22/18 23:44		OK



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

Report of Analysis

Client:		Date Collected:	1/22/2018 12:00:00 AM
Project:	LB92792	Date Received:	1/22/2018 12:00:00 AM
Client Sample ID:	BELL-0118	SDG No.:	LB92792
Lab Sample ID:	J1262-01	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	1.2		1	0.066		0.5	mg/L		01/22/2018	300.0
	Chloride	114	OR	1	0.075		0.15	mg/L		01/22/2018	300.0
	Fluoride	0.13		1	0.043		0.1	mg/L		01/22/2018	300.0
	Nitrate	0.16		1	0.027		0.13	mg/L		01/22/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		01/22/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		01/22/2018	300.0
	Sulfate	119	OR	1	0.13		0.75	mg/L		01/22/2018	300.0



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Report of Analysis

Client:		Date Collected:	1/22/2018 12:00:00 AM
Project:	LB92792	Date Received:	1/22/2018 12:00:00 AM
Client Sample ID:	2-AVE-09	SDG No.:	LB92792
Lab Sample ID:	J1264-01	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	1.7		1	0.066		0.5	mg/L		01/22/2018	300.0
	Chloride	145	OR	1	0.075		0.15	mg/L		01/22/2018	300.0
	Fluoride	0.38		1	0.043		0.1	mg/L		01/22/2018	300.0
	Nitrate	0.46		1	0.027		0.13	mg/L		01/22/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		01/22/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		01/22/2018	300.0
	Sulfate	121	OR	1	0.13		0.75	mg/L		01/22/2018	300.0



Report of Analysis

Client:		Date Collected:	1/22/2018 12:00:00 AM
Project:	LB92792	Date Received:	1/22/2018 12:00:00 AM
Client Sample ID:	2-AVE-09	SDG No.:	LB92792
Lab Sample ID:	J1264-01	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



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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92792

SDG No.: LB92792

Contract: _____ Lab Code: CHEM

Case No.: LB92792

SAS No.: LB92792

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	9.7	10	97		90 - 110		01/02/2018	16:30	LB92792
	Chloride	2.9	3	96.7		90 - 110		01/02/2018	16:30	LB92792
	Fluoride	2.1	2	105		90 - 110		01/02/2018	16:30	LB92792
	Phosphorus, Ortho	5.3	5	106		90 - 110		01/02/2018	16:30	LB92792
	Nitrite	2.9	3	96.7		90 - 110		01/02/2018	16:30	LB92792
	Nitrate	2.4	2.5	96		90 - 110		01/02/2018	16:30	LB92792
	Sulfate	14.1	15	94		90 - 110		01/02/2018	16:30	LB92792

Sample ID	Analyte	Result	True Value	%	Qual	Acceptance	M	Analysis	Analysis	Run
		mg/L		Recovery		Window (%R)		Date	Time	
CCV1	Bromide	9.7	10	97		90 - 110		01/22/2018	10:40	LB92792
	Chloride	2.9	3	96.7		90 - 110		01/22/2018	10:40	LB92792
	Fluoride	2	2	100		90 - 110		01/22/2018	10:40	LB92792
	Phosphorus, Ortho	4.5	5	90		90 - 110		01/22/2018	10:40	LB92792
	Nitrite	2.9	3	96.7		90 - 110		01/22/2018	10:40	LB92792
	Nitrate	2.4	2.5	96		90 - 110		01/22/2018	10:40	LB92792
	Sulfate	14.4	15	96		90 - 110		01/22/2018	10:40	LB92792
CCV2	Bromide	9.7	10	97		90 - 110		01/22/2018	14:20	LB92792
	Chloride	3	3	100		90 - 110		01/22/2018	14:20	LB92792
	Fluoride	1.9	2	95		90 - 110		01/22/2018	14:20	LB92792
	Phosphorus, Ortho	5.6	5	112	*	90 - 110		01/22/2018	14:20	LB92792
	Nitrite	2.9	3	96.7		90 - 110		01/22/2018	14:20	LB92792
	Nitrate	2.4	2.5	96		90 - 110		01/22/2018	14:20	LB92792
	Sulfate	14.4	15	96		90 - 110		01/22/2018	14:20	LB92792
CCV3	Bromide	9.5	10	95		90 - 110		01/22/2018	21:40	LB92792
	Chloride	2.8	3	93.3		90 - 110		01/22/2018	21:40	LB92792
	Fluoride	2	2	100		90 - 110		01/22/2018	21:40	LB92792
	Phosphorus, Ortho	5.6	5	112	*	90 - 110		01/22/2018	21:40	LB92792
	Nitrite	2.8	3	93.3		90 - 110		01/22/2018	21:40	LB92792
	Nitrate	2.4	2.5	96		90 - 110		01/22/2018	21:40	LB92792
	Sulfate	14	15	93.3		90 - 110		01/22/2018	21:40	LB92792
CCV4	Bromide	10.1	10	101		90 - 110		01/22/2018	23:13	LB92792
	Chloride	2.9	3	96.7		90 - 110		01/22/2018	23:13	LB92792
	Fluoride	2	2	100		90 - 110		01/22/2018	23:13	LB92792
	Phosphorus, Ortho	5.7	5	114	*	90 - 110		01/22/2018	23:13	LB92792
	Nitrite	2.8	3	93.3		90 - 110		01/22/2018	23:13	LB92792
	Nitrate	2.4	2.5	96		90 - 110		01/22/2018	23:13	LB92792
	Sulfate	14	15	93.3		90 - 110		01/22/2018	23:13	LB92792



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92792

SDG No.: LB92792

Contract: Lab Code: CHEM

Case No.: LB92792

SAS No.: LB92792

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		01/02/2018	17:01	LB92792
	Chloride	0.075	+/-0.15	U		0.15		01/02/2018	17:01	LB92792
	Fluoride	0.043	+/-0.1	U		0.1		01/02/2018	17:01	LB92792
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/02/2018	17:01	LB92792
	Nitrite	0.022	+/-0.15	U		0.15		01/02/2018	17:01	LB92792
	Nitrate	0.027	+/-0.13	U		0.13		01/02/2018	17:01	LB92792
	Sulfate	0.13	+/-0.75	U		0.75		01/02/2018	17:01	LB92792



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92792 SDG No.: LB92792
Contract: _____ Lab Code: CHEM Case No.: LB92792 SAS No.: LB92792

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		01/22/2018	11:11	LB92792
	Chloride	0.075	+/-0.15	U		0.15		01/22/2018	11:11	LB92792
	Fluoride	0.043	+/-0.1	U		0.1		01/22/2018	11:11	LB92792
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/22/2018	11:11	LB92792
	Nitrite	0.022	+/-0.15	U		0.15		01/22/2018	11:11	LB92792
	Nitrate	0.027	+/-0.13	U		0.13		01/22/2018	11:11	LB92792
	Sulfate	0.13	+/-0.75	U		0.75		01/22/2018	11:11	LB92792
CCB2	Bromide	0.066	+/-0.5	U		0.5		01/22/2018	15:28	LB92792
	Chloride	0.075	+/-0.15	U		0.15		01/22/2018	15:28	LB92792
	Fluoride	0.043	+/-0.1	U		0.1		01/22/2018	15:28	LB92792
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/22/2018	15:28	LB92792
	Nitrite	0.022	+/-0.15	U		0.15		01/22/2018	15:28	LB92792
	Nitrate	0.027	+/-0.13	U		0.13		01/22/2018	15:28	LB92792
	Sulfate	0.13	+/-0.75	U		0.75		01/22/2018	15:28	LB92792
CCB3	Bromide	0.066	+/-0.5	U		0.5		01/22/2018	22:11	LB92792
	Chloride	0.075	+/-0.15	U		0.15		01/22/2018	22:11	LB92792
	Fluoride	0.043	+/-0.1	U		0.1		01/22/2018	22:11	LB92792
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/22/2018	22:11	LB92792
	Nitrite	0.022	+/-0.15	U		0.15		01/22/2018	22:11	LB92792
	Nitrate	0.027	+/-0.13	U		0.13		01/22/2018	22:11	LB92792
	Sulfate	0.13	+/-0.75	U		0.75		01/22/2018	22:11	LB92792
CCB4	Bromide	0.066	+/-0.5	U		0.5		01/22/2018	23:44	LB92792
	Chloride	0.075	+/-0.15	U		0.15		01/22/2018	23:44	LB92792
	Fluoride	0.043	+/-0.1	U		0.1		01/22/2018	23:44	LB92792
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/22/2018	23:44	LB92792
	Nitrite	0.022	+/-0.15	U		0.15		01/22/2018	23:44	LB92792
	Nitrate	0.027	+/-0.13	U		0.13		01/22/2018	23:44	LB92792
	Sulfate	0.13	+/-0.75	U		0.75		01/22/2018	23:44	LB92792



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92792

SDG No.: LB92792

Contract: Lab Code: CHEM

Case No.: LB92792

SAS No.: LB92792

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: LB92792

SDG No.: LB92792

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
LB92792BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		01/22/2018	11:42	LB92792
	Chloride	0.075	<0.15	U		0.15		01/22/2018	11:42	LB92792
	Fluoride	0.043	<0.1	U		0.1		01/22/2018	11:42	LB92792
	Phosphorus, Ortho	0.01	<0.25	U		0.25		01/22/2018	11:42	LB92792
	Nitrite	0.022	<0.15	U		0.15		01/22/2018	11:42	LB92792
	Nitrate	0.027	<0.13	U		0.13		01/22/2018	11:42	LB92792
	Sulfate	0.13	<0.75	U		0.75		01/22/2018	11:42	LB92792



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MATRIX SPIKE SUMMARY

client: LB92792 level: low sdg no.: LB92792
contract: _____ lab code: CHEM case no.: LB92792 sas no.: LB92792
matrix: WATER sample id: J1264-01 client id: 2-AVE-09MS
Percent Solids for Sample: 0 Spiked ID: J1264-01MS 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	11.1		1.7		10	94		
Chloride	mg/L	80 - 120	139	OR	145	OR	3	-200	*	
Fluoride	mg/L	80 - 120	2.5		0.38		2	106		
Phosphorus, Ortho	mg/L	80 - 120	6.4		0.01	U	5	128	*	
Nitrite	mg/L	80 - 120	2.9		0.022	U	3	96.7		
Nitrate	mg/L	80 - 120	2.8		0.46		2.5	94		
Sulfate	mg/L	80 - 120	124	OR	121	OR	15	20	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB92792 **Level:** LOW **SDG No.:** LB92792
Contract: _____ **Lab Code:** CHEM **Case No.:** LB92792 **SAS No.:** LB92792
Matrix: WATER **Sample ID:** J1264-01 **Client ID:** 2-AVE-09DUP
Percent Solids for Sample: 0 **Duplicate ID** J1264-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bromide	mg/L	20	1.7		1.7		0		
Chloride	mg/L	20	145	OR	150	OR	3		
Fluoride	mg/L	20	0.38		0.37		3		
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.022	U	0	U			
Nitrate	mg/L	20	0.46		0.46		0		
Sulfate	mg/L	20	121	OR	122	OR	1		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92792

SDG No.: LB92792

Contract:

Lab Code: CHEM

Case No.: LB92792

SAS No.: LB92792

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB92792BSW							
Bromide	mg/L	10	9.4		94	90 - 110	
Chloride	mg/L	3	2.8		93.3	90 - 110	
Fluoride	mg/L	2	1.9		95	90 - 110	
Phosphorus, Ortho	mg/L	5	4.8		96	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		93.3	90 - 110	
