

Daily Analysis Runlog For Sequence/QC Batch ID # LB91541

Review By		Review On				
SubDirectory		LB91541		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP59271,WP59273,WP59274,WP59277,WP59278,WP59279,WP59280				
ICV Standard		WP59281				
CCV Standard		WP59443				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP59448				
Chk Standard		WP59282,WP59283				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	11/01/17 12:03		OK
2	STD2	STD2	CAL2	11/01/17 12:33		OK
3	STD3	STD3	CAL3	11/01/17 13:02		OK
4	STD4	STD4	CAL4	11/01/17 13:32		OK
5	STD5	STD5	CAL5	11/01/17 14:02		OK
6	STD6	STD6	CAL6	11/01/17 14:32		OK
7	STD7	STD7	CAL7	11/01/17 15:02		OK
8	ICV1	ICV1	ICV	11/01/17 16:32		OK
9	ICB1	ICB1	ICB	11/01/17 17:02		OK
10	CCV1	CCV1	CCV	11/08/17 10:17		OK
11	CCB1	CCB1	CCB	11/08/17 10:55		OK
12	LB91541BLW	LB91541BLW	MB	11/08/17 11:25		OK
13	LB91541BSW	LB91541BSW	LCS	11/08/17 11:55		OK
14	I6393-01	POOL-WATER	SAM	11/08/17 17:38		OK
15	I6393-01DUP	POOL-WATERDUP	DUP	11/08/17 18:08		OK
16	I6393-01MS	POOL-WATERMS	MS	11/08/17 18:38		OK
17	CCV2	CCV2	CCV	11/08/17 19:08		OK
18	CCB2	CCB2	CCB	11/08/17 19:38		OK



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Report of Analysis

Client:		Date Collected:	11/6/2017 12:00:00 AM
Project:	LB91541	Date Received:	11/8/2017 12:00:00 AM
Client Sample ID:	POOL-WATER	SDG No.:	LB91541
Lab Sample ID:	I6393-01	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		11/08/2017	300.0
	Chloride	0.26		1	0.075		0.15	mg/L		11/08/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		11/08/2017	300.0
	Nitrate	0.13		1	0.027		0.13	mg/L		11/08/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		11/08/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		11/08/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		11/08/2017	300.0



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Report of Analysis

Client:		Date Collected:	11/6/2017 12:00:00 AM
Project:	LB91541	Date Received:	11/8/2017 12:00:00 AM
Client Sample ID:	POOL-WATER	SDG No.:	LB91541
Lab Sample ID:	I6393-01	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

Sample ID	Analyte	Result	True Value	%	%	Acceptance	M	Analysis	Analysis	Run
		mg/L								
ICV1	Bromide	9.6	10	96	0	90 - 110		11/01/2017	16:32	LB91541
	Chloride	2.9	3	96.7	0	90 - 110		11/01/2017	16:32	LB91541
	Fluoride	2	2	100	0	90 - 110		11/01/2017	16:32	LB91541
	Phosphorus, Ortho	5.3	5	106	0	90 - 110		11/01/2017	16:32	LB91541
	Nitrite	2.9	3	96.7	0	90 - 110		11/01/2017	16:32	LB91541
	Nitrate	2.4	2.5	96	0	90 - 110		11/01/2017	16:32	LB91541
	Sulfate	14.2	15	94.7	0	90 - 110		11/01/2017	16:32	LB91541



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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB91541

SDG No.: LB91541

Contract: _____ Lab Code: CHEM

Case No.: LB91541

SAS No.: LB91541

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	9.5	10	95	0	90 - 110		11/08/2017	10:17	LB91541
	Chloride	2.9	3	96.7	0	90 - 110		11/08/2017	10:17	LB91541
	Fluoride	2	2	100	0	90 - 110		11/08/2017	10:17	LB91541
	Phosphorus, Ortho	4.9	5	98	0	90 - 110		11/08/2017	10:17	LB91541
	Nitrite	2.8	3	93.3	0	90 - 110		11/08/2017	10:17	LB91541
	Nitrate	2.4	2.5	96	0	90 - 110		11/08/2017	10:17	LB91541
	Sulfate	13.6	15	90.7	0	90 - 110		11/08/2017	10:17	LB91541
CCV2	Bromide	9.7	10	97	0	90 - 110		11/08/2017	19:08	LB91541
	Chloride	2.9	3	96.7	0	90 - 110		11/08/2017	19:08	LB91541
	Fluoride	2.1	2	105	0	90 - 110		11/08/2017	19:08	LB91541
	Phosphorus, Ortho	5.3	5	106	0	90 - 110		11/08/2017	19:08	LB91541
	Nitrite	2.9	3	96.7	0	90 - 110		11/08/2017	19:08	LB91541
	Nitrate	2.4	2.5	96	0	90 - 110		11/08/2017	19:08	LB91541
	Sulfate	13.9	15	92.7	0	90 - 110		11/08/2017	19:08	LB91541



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91541

SDG No.: LB91541

Contract: Lab Code: CHEM

Case No.: LB91541

SAS No.: LB91541

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		11/01/2017	17:02	LB91541
	Chloride	0.075	+/-0.15	U		0.15		11/01/2017	17:02	LB91541
	Fluoride	0.043	+/-0.1	U		0.1		11/01/2017	17:02	LB91541
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		11/01/2017	17:02	LB91541
	Nitrite	0.022	+/-0.15	U		0.15		11/01/2017	17:02	LB91541
	Nitrate	0.027	+/-0.13	U		0.13		11/01/2017	17:02	LB91541
	Sulfate	0.13	+/-0.75	U		0.75		11/01/2017	17:02	LB91541



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91541

SDG No.: LB91541

Contract:

Lab Code: CHEM

Case No.: LB91541

SAS No.: LB91541

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		11/08/2017	10:55	LB91541
	Chloride	0.075	+/-0.15	U		0.15		11/08/2017	10:55	LB91541
	Fluoride	0.043	+/-0.1	U		0.1		11/08/2017	10:55	LB91541
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		11/08/2017	10:55	LB91541
	Nitrite	0.022	+/-0.15	U		0.15		11/08/2017	10:55	LB91541
	Nitrate	0.027	+/-0.13	U		0.13		11/08/2017	10:55	LB91541
	Sulfate	0.13	+/-0.75	U		0.75		11/08/2017	10:55	LB91541
CCB2	Bromide	0.066	+/-0.5	U		0.5		11/08/2017	19:38	LB91541
	Chloride	0.075	+/-0.15	U		0.15		11/08/2017	19:38	LB91541
	Fluoride	0.043	+/-0.1	U		0.1		11/08/2017	19:38	LB91541
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		11/08/2017	19:38	LB91541
	Nitrite	0.022	+/-0.15	U		0.15		11/08/2017	19:38	LB91541
	Nitrate	0.027	+/-0.13	U		0.13		11/08/2017	19:38	LB91541
	Sulfate	0.13	+/-0.75	U		0.75		11/08/2017	19:38	LB91541



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91541

SDG No.: LB91541

Contract: Lab Code: CHEM

Case No.: LB91541

SAS No.: LB91541

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

Client: LB91541

SDG No.: LB91541

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
LB91541BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		11/08/2017	11:25	LB91541
	Chloride	0.075	<0.15	U		0.15		11/08/2017	11:25	LB91541
	Fluoride	0.043	<0.1	U		0.1		11/08/2017	11:25	LB91541
	Phosphorus, Ortho	0.01	<0.25	U		0.25		11/08/2017	11:25	LB91541
	Nitrite	0.022	<0.15	U		0.15		11/08/2017	11:25	LB91541
	Nitrate	0.027	<0.13	U		0.13		11/08/2017	11:25	LB91541
	Sulfate	0.13	<0.75	U		0.75		11/08/2017	11:25	LB91541



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MATRIX SPIKE SUMMARY

client: LB91541 level: low sdg no.: LB91541
contract: _____ lab code: CHEM case no.: LB91541 sas no.: LB91541
matrix: WATER sample id: I6393-01 client id: POOL-WATERMS
Percent Solids for Sample: 0 Spiked ID: I6393-01MS 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	3.1		0.26		3	95		
Fluoride	mg/L	80 - 120	2		0.043	U	2	100		
Phosphorus, Ortho	mg/L	80 - 120	4.9		0.01	U	5	98		
Nitrite	mg/L	80 - 120	2.9		0.022	U	3	96.7		
Nitrate	mg/L	80 - 120	2.5		0.13		2.5	95		
Sulfate	mg/L	80 - 120	14.3		0.13	U	15	95.3		

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DUPLICATE SAMPLE SUMMARY

Client: LB91541 **Level:** LOW **SDG No.:** LB91541
Contract: **Lab Code:** CHEM **Case No.:** LB91541 **SAS No.:** LB91541
Matrix: WATER **Sample ID:** I6393-01 **Client ID:** POOL-WATERDUP
Percent Solids for Sample: 0 **Duplicate ID** I6393-01DUP **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	0.26		0.25		4		
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	0.13		0.13		0		
Sulfate	mg/L	20	0.13	U	0	U			



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91541

SDG No.: LB91541

Contract:

Lab Code: CHEM

Case No.: LB91541

SAS No.: LB91541

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB91541BSW							
Bromide	mg/L	10	9.6		96	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Fluoride	mg/L	2	2		100	90 - 110	
Phosphorus, Ortho	mg/L	5	5.1		102	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	13.7		91.3	90 - 110	
