

Daily Analysis Runlog For Sequence/QC Batch ID # LB91377

Review By

SubDirectory

Review On

Test : Anions

LB91377

STD. NAME		STD REF.#				
ICAL Standard		WP58645,WP58646,WP58647,WP58648,WP58649,WP58650,WP58651				
ICV Standard		WP58652				
CCV Standard		WP59394				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		wp59395				
Chk Standard		WP58925,WP59283				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	10/09/17 10:05		OK
2	STD2	STD2	CAL2	10/09/17 10:35		OK
3	STD3	STD3	CAL3	10/09/17 11:05		OK
4	STD4	STD4	CAL4	10/09/17 11:35		OK
5	STD5	STD5	CAL5	10/09/17 12:05		OK
6	STD6	STD6	CAL6	10/09/17 12:35		OK
7	STD7	STD7	CAL7	10/09/17 13:05		OK
8	ICV1	ICV1	ICV	10/09/17 14:52		OK
9	ICB1	ICB1	ICB	10/09/17 15:22		OK
10	CCV1	CCV1	CCV	11/03/17 10:37		OK
11	CCB1	CCB1	CCB	11/03/17 11:45		OK
12	LB91377BLW	LB91377BLW	MB	11/03/17 12:14		OK
13	LB91377BSW	LB91377BSW	LCS	11/03/17 12:43		OK
14	I6329-01	B-EMH-F	SAM	11/03/17 13:12		OK
15	I6329-01DUP	B-EMH-FDUP	DUP	11/03/17 13:41		OK
16	I6329-01MS	B-EMH-FMS	MS	11/03/17 14:10		OK
17	CCV2	CCV2	CCV	11/03/17 14:40		OK
18	CCB2	CCB2	CCB	11/03/17 15:09		OK



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Report of Analysis

Client:		Date Collected:	11/3/2017 12:00:00 AM
Project:	LB91377	Date Received:	11/3/2017 12:00:00 AM
Client Sample ID:	B-EMH-F	SDG No.:	LB91377
Lab Sample ID:	I6329-01	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		11/03/2017	300.0
	Chloride	1650	OR	1	0.075		0.15	mg/L		11/03/2017	300.0
	Fluoride	0.28		1	0.043		0.1	mg/L		11/03/2017	300.0
	Nitrate	0.21		1	0.027		0.13	mg/L		11/03/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		11/03/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		11/03/2017	300.0
	Sulfate	7.6		1	0.13		0.75	mg/L		11/03/2017	300.0



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Report of Analysis

Client:		Date Collected:	11/3/2017 12:00:00 AM
Project:	LB91377	Date Received:	11/3/2017 12:00:00 AM
Client Sample ID:	B-EMH-F	SDG No.:	LB91377
Lab Sample ID:	I6329-01	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: LB91377

SDG No.: LB91377

Contract: _____ Lab Code: CHEM

Case No.: LB91377

SAS No.: LB91377

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	9.9	10	99	0	90 - 110		10/09/2017	14:52	LB91377
	Chloride	2.9	3	96.7	0	90 - 110		10/09/2017	14:52	LB91377
	Fluoride	2	2	100	0	90 - 110		10/09/2017	14:52	LB91377
	Phosphorus, Ortho	5.3	5	106	0	90 - 110		10/09/2017	14:52	LB91377
	Nitrite	2.9	3	96.7	0	90 - 110		10/09/2017	14:52	LB91377
	Nitrate	2.4	2.5	96	0	90 - 110		10/09/2017	14:52	LB91377
	Sulfate	14.8	15	98.7	0	90 - 110		10/09/2017	14:52	LB91377

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		10/09/2017	15:22	LB91377
	Chloride	0.075	+/-0.15	U		0.15		10/09/2017	15:22	LB91377
	Fluoride	0.043	+/-0.1	U		0.1		10/09/2017	15:22	LB91377
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		10/09/2017	15:22	LB91377
	Nitrite	0.022	+/-0.15	U		0.15		10/09/2017	15:22	LB91377
	Nitrate	0.027	+/-0.13	U		0.13		10/09/2017	15:22	LB91377
	Sulfate	0.13	+/-0.75	U		0.75		10/09/2017	15:22	LB91377

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		11/03/2017	11:45	LB91377
	Chloride	0.075	+/-0.15	U		0.15		11/03/2017	11:45	LB91377
	Fluoride	0.043	+/-0.1	U		0.1		11/03/2017	11:45	LB91377
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		11/03/2017	11:45	LB91377
	Nitrite	0.022	+/-0.15	U		0.15		11/03/2017	11:45	LB91377
	Nitrate	0.027	+/-0.13	U		0.13		11/03/2017	11:45	LB91377
	Sulfate	0.13	+/-0.75	U		0.75		11/03/2017	11:45	LB91377
CCB2	Bromide	0.066	+/-0.5	U		0.5		11/03/2017	15:09	LB91377
	Chloride	0.075	+/-0.15	U		0.15		11/03/2017	15:09	LB91377
	Fluoride	0.043	+/-0.1	U		0.1		11/03/2017	15:09	LB91377
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		11/03/2017	15:09	LB91377
	Nitrite	0.022	+/-0.15	U		0.15		11/03/2017	15:09	LB91377
	Nitrate	0.027	+/-0.13	U		0.13		11/03/2017	15:09	LB91377
	Sulfate	0.13	+/-0.75	U		0.75		11/03/2017	15:09	LB91377



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91377

SDG No.: LB91377

Contract: Lab Code: CHEM

Case No.: LB91377

SAS No.: LB91377

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: LB91377

SDG No.: LB91377

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
LB91377BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		11/03/2017	12:14	LB91377
	Chloride	0.075	<0.15	U		0.15		11/03/2017	12:14	LB91377
	Fluoride	0.043	<0.1	U		0.1		11/03/2017	12:14	LB91377
	Phosphorus, Ortho	0.01	<0.25	U		0.25		11/03/2017	12:14	LB91377
	Nitrite	0.022	<0.15	U		0.15		11/03/2017	12:14	LB91377
	Nitrate	0.027	<0.13	U		0.13		11/03/2017	12:14	LB91377
	Sulfate	0.13	<0.75	U		0.75		11/03/2017	12:14	LB91377



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MATRIX SPIKE SUMMARY

client: LB91377 level: low sdg no.: LB91377
contract: lab code: CHEM case no.: LB91377 sas no.: LB91377
matrix: WATER sample id: I6329-01 client id: B-EMH-FMS
Percent Solids for Sample: 0 Spiked ID: I6329-01MS 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	10.7		1.7		10	90		
Chloride	mg/L	80 - 120	1080	OR	1650	OR	3	-19000	*	
Fluoride	mg/L	80 - 120	2.4		0.28		2	106		
Phosphorus, Ortho	mg/L	80 - 120	4.2		0.01	U	5	84		
Nitrite	mg/L	80 - 120	2.3		0.022	U	3	76.7	*	
Nitrate	mg/L	80 - 120	2.5		0.21		2.5	92		
Sulfate	mg/L	80 - 120	21		7.6		15	89		

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DUPLICATE SAMPLE SUMMARY

Client: LB91377 **Level:** LOW **SDG No.:** LB91377
Contract: _____ **Lab Code:** CHEM **Case No.:** LB91377 **SAS No.:** LB91377
Matrix: WATER **Sample ID:** I6329-01 **Client ID:** B-EMH-FDUP
Percent Solids for Sample: 0 **Duplicate ID** I6329-01DUP **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		1.3		27	*	
Chloride	mg/L	20	1650	OR	1190	OR	32	*	
Fluoride	mg/L	20	0.28		0.1		95	*	
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.022	U	0	U			
Nitrate	mg/L	20	0.21		0.2		5		
Sulfate	mg/L	20	7.6		7.6		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91377

SDG No.: LB91377

Contract:

Lab Code: CHEM

Case No.: LB91377

SAS No.: LB91377

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB91377BSW							
Bromide	mg/L	10	8.9		89	90 - 110	
Chloride	mg/L	3	2.8		93.3	90 - 110	
Fluoride	mg/L	2	2.1		105	90 - 110	
Phosphorus, Ortho	mg/L	5	3.9		78	90 - 110	
Nitrite	mg/L	3	2.8		93.3	90 - 110	
Nitrate	mg/L	2.5	2.3		92	90 - 110	
Sulfate	mg/L	15	13.7		91.3	90 - 110	
