

Daily Analysis Runlog For Sequence/QC Batch ID # LB89462

Review By

Review On

SubDirectory

LB89462

Test :

Anions

STD. NAME		STD REF.#				
ICAL Standard		WP57138,WP57139,WP57140,WP57141,WP57142,WP57143,WP57144				
ICV Standard		WP57145				
CCV Standard		WP57140				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP57145				
Chk Standard		WP57042,WP57005				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	08/11/17 10:27		OK
2	STD2	STD2	CAL2	08/11/17 10:56		OK
3	STD3	STD3	CAL3	08/11/17 11:25		OK
4	STD4	STD4	CAL4	08/11/17 11:54		OK
5	STD5	STD5	CAL5	08/11/17 12:23		OK
6	STD6	STD6	CAL6	08/11/17 12:52		OK
7	STD7	STD7	CAL7	08/11/17 13:21		OK
8	ICV1	ICV1	ICV	08/11/17 14:48		OK
9	ICB1	ICB1	ICB	08/11/17 15:16		OK
10	CCV1	CCV1	CCV	08/14/17 16:31		OK
11	CCB1	CCB1	CCB	08/14/17 17:00		OK
12	LB89462BLW	LB89462BLW	MB	08/14/17 17:29		OK
13	LB89462BSW	LB89462BSW	LCS	08/14/17 17:58		OK
14	I4792-11	TWP-01	SAM	08/14/17 18:27		OK
15	I4792-11DUP	TWP-01DUP	DUP	08/14/17 18:56		OK
16	I4792-11MS	TWP-01MS	MS	08/14/17 19:25		OK
17	CCV2	CCV2	CCV	08/14/17 19:54		OK
18	CCB2	CCB2	CCB	08/14/17 20:23		OK



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Report of Analysis

Client:		Date Collected:	8/14/2017 12:00:00 AM
Project:	LB89462	Date Received:	8/14/2017 12:00:00 AM
Client Sample ID:	TWP-01	SDG No.:	LB89462
Lab Sample ID:	I4792-11	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	1.1		1	0.066		0.5	mg/L		08/14/2017	300.0
	Chloride	52.7	OR	1	0.075		0.15	mg/L		08/14/2017	300.0
	Fluoride	0.88		1	0.043		0.1	mg/L		08/14/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		08/14/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		08/14/2017	300.0
	Phosphorus, Ortho	2		1	0.01		0.25	mg/L		08/14/2017	300.0
	Sulfate	28.2		1	0.13		0.75	mg/L		08/14/2017	300.0



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Report of Analysis

Client:		Date Collected:	8/14/2017 12:00:00 AM
Project:	LB89462	Date Received:	8/14/2017 12:00:00 AM
Client Sample ID:	TWP-01	SDG No.:	LB89462
Lab Sample ID:	I4792-11	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: LB89462

SDG No.: LB89462

Contract: _____ Lab Code: CHEM

Case No.: LB89462

SAS No.: LB89462

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		08/11/2017	14:48	LB89462
	Chloride	3	3	100	0	90 - 110		08/11/2017	14:48	LB89462
	Fluoride	2.2	2	110	0	90 - 110		08/11/2017	14:48	LB89462
	Phosphorus, Ortho	5.5	5	110	0	90 - 110		08/11/2017	14:48	LB89462
	Nitrite	2.9	3	96.7	0	90 - 110		08/11/2017	14:48	LB89462
	Nitrate	2.5	2.5	100	0	90 - 110		08/11/2017	14:48	LB89462
	Sulfate	14.6	15	97.3	0	90 - 110		08/11/2017	14:48	LB89462



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89462

SDG No.: LB89462

Contract:

Lab Code: CHEM

Case No.: LB89462

SAS No.: LB89462

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		08/11/2017	15:16	LB89462
	Chloride	0.075	+/-0.15	U		0.15		08/11/2017	15:16	LB89462
	Fluoride	0.043	+/-0.1	U		0.1		08/11/2017	15:16	LB89462
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		08/11/2017	15:16	LB89462
	Nitrite	0.022	+/-0.15	U		0.15		08/11/2017	15:16	LB89462
	Nitrate	0.027	+/-0.13	U		0.13		08/11/2017	15:16	LB89462
	Sulfate	0.13	+/-0.75	U		0.75		08/11/2017	15:16	LB89462



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89462

SDG No.: LB89462

Contract:

Lab Code: CHEM

Case No.: LB89462

SAS No.: LB89462

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		08/14/2017	17:00	LB89462
	Chloride	0.075	+/-0.15	U		0.15		08/14/2017	17:00	LB89462
	Fluoride	0.043	+/-0.1	U		0.1		08/14/2017	17:00	LB89462
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		08/14/2017	17:00	LB89462
	Nitrite	0.022	+/-0.15	U		0.15		08/14/2017	17:00	LB89462
	Nitrate	0.027	+/-0.13	U		0.13		08/14/2017	17:00	LB89462
	Sulfate	0.13	+/-0.75	U		0.75		08/14/2017	17:00	LB89462
CCB2	Bromide	0.066	+/-0.5	U		0.5		08/14/2017	20:23	LB89462
	Chloride	0.075	+/-0.15	U		0.15		08/14/2017	20:23	LB89462
	Fluoride	0.043	+/-0.1	U		0.1		08/14/2017	20:23	LB89462
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		08/14/2017	20:23	LB89462
	Nitrite	0.022	+/-0.15	U		0.15		08/14/2017	20:23	LB89462
	Nitrate	0.027	+/-0.13	U		0.13		08/14/2017	20:23	LB89462
	Sulfate	0.13	+/-0.75	U		0.75		08/14/2017	20:23	LB89462



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89462

SDG No.: LB89462

Contract: Lab Code: CHEM

Case No.: LB89462

SAS No.: LB89462

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: LB89462

SDG No.: LB89462

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
LB89462BLW		WATER		Batch Number:			Prep Date:			
	Bromide	0.066	<0.5	U		0.5		08/14/2017	17:29	LB89462
	Chloride	0.075	<0.15	U		0.15		08/14/2017	17:29	LB89462
	Fluoride	0.043	<0.1	U		0.1		08/14/2017	17:29	LB89462
	Phosphorus, Ortho	0.01	<0.25	U		0.25		08/14/2017	17:29	LB89462
	Nitrite	0.022	<0.15	U		0.15		08/14/2017	17:29	LB89462
	Nitrate	0.027	<0.13	U		0.13		08/14/2017	17:29	LB89462
	Sulfate	0.13	<0.75	U		0.75		08/14/2017	17:29	LB89462



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MATRIX SPIKE SUMMARY

client: LB89462 level: low sdg no.: LB89462
contract: _____ lab code: CHEM case no.: LB89462 sas no.: LB89462
matrix: WATER sample id: I4792-11 client id: TWP-01MS
Percent Solids for Sample: 0 Spiked ID: I4792-11MS 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		10	99		
Chloride	mg/L	80 - 120	51.5	OR	52.7	OR	3	-40	*	
Fluoride	mg/L	80 - 120	2.7		0.88		2	91		
Phosphorus, Ortho	mg/L	80 - 120	7.6		2		5	112		
Nitrite	mg/L	80 - 120	2.9		0.022	U	3	96.7		
Nitrate	mg/L	80 - 120	2.5		0.027	U	2.5	100		
Sulfate	mg/L	80 - 120	41.9	OR	28.2		15	91		

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DUPLICATE SAMPLE SUMMARY

Client: LB89462 **Level:** LOW **SDG No.:** LB89462
Contract: _____ **Lab Code:** CHEM **Case No.:** LB89462 **SAS No.:** LB89462
Matrix: WATER **Sample ID:** I4792-11 **Client ID:** TWP-01DUP
Percent Solids for Sample: 0 **Duplicate ID** I4792-11DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bromide	mg/L	20	1.1		1		10		
Chloride	mg/L	20	52.7	OR	52.7	OR	0		
Fluoride	mg/L	20	0.88		0.81		8		
Phosphorus, Ortho	mg/L	20	2		2		0		
Nitrite	mg/L	20	0.022	U	0	U			
Nitrate	mg/L	20	0.027	U	0	U			
Sulfate	mg/L	20	28.2		28.2		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89462

SDG No.: LB89462

Contract: _____

Lab Code: CHEM

Case No.: LB89462

SAS No.: LB89462

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB89462BSW							
Bromide	mg/L	10	10.4		104	90 - 110	
Chloride	mg/L	3	3		100	90 - 110	
Fluoride	mg/L	2	2.2		110	90 - 110	
Phosphorus, Ortho	mg/L	5	6		120	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	
Nitrate	mg/L	2.5	2.5		100	90 - 110	
Sulfate	mg/L	15	15		100	90 - 110	
