

Daily Analysis Runlog For Sequence/QC Batch ID # LB89687

Review By		Review On				
SubDirectory		LB89687		Test : Anions		

STD. NAME	STD REF.#
ICAL Standard	WP56996,WP56997,WP56998,WP56999,WP57000,WP57001,WP57002
ICV Standard	WP57003
CCV Standard	WP57404
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP57409
Chk Standard	WP57004,WP57005

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	08/07/17 11:59		OK
2	STD2	STD2	CAL2	08/07/17 12:30		OK
3	STD3	STD3	CAL3	08/07/17 13:01		OK
4	STD4	STD4	CAL4	08/07/17 13:31		OK
5	STD5	STD5	CAL5	08/07/17 14:02		OK
6	STD6	STD6	CAL6	08/07/17 14:33		OK
7	STD7	STD7	CAL7	08/07/17 15:04		OK
8	ICV1	ICV1	ICV	08/07/17 17:11		OK
9	ICB1	ICB1	ICB	08/07/17 17:42		OK
10	CCV1	CCV1	CCV	08/24/17 10:39		OK
11	CCB1	CCB1	CCB	08/24/17 11:10		OK
12	LB89687BLW	LB89687BLW	MB	08/24/17 11:41		OK
13	LB89687BSW	LB89687BSW	LCS	08/24/17 12:12		OK
14	I4951-01	POOLWATER	SAM	08/24/17 12:43		OK
15	I4951-01DUP	POOLWATERDUP	DUP	08/24/17 13:14		OK
16	I4951-01MS	POOLWATERMS	MS	08/24/17 13:44		OK
17	CCV2	CCV2	CCV	08/24/17 14:16		OK
18	CCB2	CCB2	CCB	08/24/17 14:47		OK



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Report of Analysis

Client:		Date Collected:	8/23/2017 12:00:00 AM
Project:	LB89687	Date Received:	8/24/2017 12:00:00 AM
Client Sample ID:	POOLWATER	SDG No.:	LB89687
Lab Sample ID:	I4951-01	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		08/24/2017	300.0
	Chloride	1.6		1	0.075		0.15	mg/L		08/24/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		08/24/2017	300.0
	Nitrate	0.26		1	0.027		0.13	mg/L		08/24/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		08/24/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		08/24/2017	300.0
	Sulfate	1.6		1	0.13		0.75	mg/L		08/24/2017	300.0



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Report of Analysis

Client:		Date Collected:	8/23/2017 12:00:00 AM
Project:	LB89687	Date Received:	8/24/2017 12:00:00 AM
Client Sample ID:	POOLWATER	SDG No.:	LB89687
Lab Sample ID:	I4951-01	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: LB89687

SDG No.: LB89687

Contract: _____ Lab Code: CHEM

Case No.: LB89687

SAS No.: LB89687

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		08/07/2017	17:11	LB89687
	Chloride	3	3	100	0	90 - 110		08/07/2017	17:11	LB89687
	Fluoride	2.1	2	105	0	90 - 110		08/07/2017	17:11	LB89687
	Phosphorus, Ortho	5.3	5	106	0	90 - 110		08/07/2017	17:11	LB89687
	Nitrite	3	3	100	0	90 - 110		08/07/2017	17:11	LB89687
	Nitrate	2.5	2.5	100	0	90 - 110		08/07/2017	17:11	LB89687
	Sulfate	14.8	15	98.7	0	90 - 110		08/07/2017	17:11	LB89687



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89687

SDG No.: LB89687

Contract: Lab Code: CHEM

Case No.: LB89687

SAS No.: LB89687

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		08/07/2017	17:42	LB89687
	Chloride	0.075	+/-0.15	U		0.15		08/07/2017	17:42	LB89687
	Fluoride	0.043	+/-0.1	U		0.1		08/07/2017	17:42	LB89687
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		08/07/2017	17:42	LB89687
	Nitrite	0.022	+/-0.15	U		0.15		08/07/2017	17:42	LB89687
	Nitrate	0.027	+/-0.13	U		0.13		08/07/2017	17:42	LB89687
	Sulfate	0.13	+/-0.75	U		0.75		08/07/2017	17:42	LB89687



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89687

SDG No.: LB89687

Contract: Lab Code: CHEM

Case No.: LB89687

SAS No.: LB89687

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		08/24/2017	11:10	LB89687
	Chloride	0.075	+/-0.15	U		0.15		08/24/2017	11:10	LB89687
	Fluoride	0.043	+/-0.1	U		0.1		08/24/2017	11:10	LB89687
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		08/24/2017	11:10	LB89687
	Nitrite	0.022	+/-0.15	U		0.15		08/24/2017	11:10	LB89687
	Nitrate	0.027	+/-0.13	U		0.13		08/24/2017	11:10	LB89687
	Sulfate	0.13	+/-0.75	U		0.75		08/24/2017	11:10	LB89687
CCB2	Bromide	0.066	+/-0.5	U		0.5		08/24/2017	14:47	LB89687
	Chloride	0.075	+/-0.15	U		0.15		08/24/2017	14:47	LB89687
	Fluoride	0.043	+/-0.1	U		0.1		08/24/2017	14:47	LB89687
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		08/24/2017	14:47	LB89687
	Nitrite	0.022	+/-0.15	U		0.15		08/24/2017	14:47	LB89687
	Nitrate	0.027	+/-0.13	U		0.13		08/24/2017	14:47	LB89687
	Sulfate	0.13	+/-0.75	U		0.75		08/24/2017	14:47	LB89687



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89687

SDG No.: LB89687

Contract: Lab Code: CHEM

Case No.: LB89687

SAS No.: LB89687

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: LB89687

SDG No.: LB89687

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
LB89687BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		08/24/2017	11:41	LB89687
	Chloride	0.075	<0.15	U		0.15		08/24/2017	11:41	LB89687
	Fluoride	0.043	<0.1	U		0.1		08/24/2017	11:41	LB89687
	Phosphorus, Ortho	0.01	<0.25	U		0.25		08/24/2017	11:41	LB89687
	Nitrite	0.022	<0.15	U		0.15		08/24/2017	11:41	LB89687
	Nitrate	0.027	<0.13	U		0.13		08/24/2017	11:41	LB89687
	Sulfate	0.13	<0.75	U		0.75		08/24/2017	11:41	LB89687



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MATRIX SPIKE SUMMARY

client: LB89687 level: low sdg no.: LB89687
contract: lab code: CHEM case no.: LB89687 sas no.: LB89687
matrix: WATER sample id: I4951-01 client id: POOLWATERMS
Percent Solids for Sample: 0 Spiked ID: I4951-01MS 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	9.8		0.066	U	10	98		
Chloride	mg/L	80 - 120	5.4		1.6		3	127	*	
Fluoride	mg/L	80 - 120	2.2		0.043	U	2	110		
Phosphorus, Ortho	mg/L	80 - 120	5		0.01	U	5	100		
Nitrite	mg/L	80 - 120	2.9		0.022	U	3	96.7		
Nitrate	mg/L	80 - 120	2.6		0.26		2.5	94		
Sulfate	mg/L	80 - 120	15.2		1.6		15	91		

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DUPLICATE SAMPLE SUMMARY

Client: LB89687 **Level:** LOW **SDG No.:** LB89687
Contract: **Lab Code:** CHEM **Case No.:** LB89687 **SAS No.:** LB89687
Matrix: WATER **Sample ID:** I4951-01 **Client ID:** POOLWATERDUP
Percent Solids for Sample: 0 **Duplicate ID** I4951-01DUP **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	1.6		1.7		6		
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	0.26		0.26		0		
Sulfate	mg/L	20	1.6		1.6		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89687

SDG No.: LB89687

Contract:

Lab Code: CHEM

Case No.: LB89687

SAS No.: LB89687

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB89687BSW							
Bromide	mg/L	10	9.8		98	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Fluoride	mg/L	2	2.1		105	90 - 110	
Phosphorus, Ortho	mg/L	5	4.6		92	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	14.3		95.3	90 - 110	
