

Daily Analysis Runlog For Sequence/QC Batch ID # LB88715

Review By

SubDirectory

Review On

Test : Anions

LB88715

STD. NAME	STD REF.#
ICAL Standard	WP56304,WP56305,WP56306,WP56307,WP56308,WP56309,WP56310
ICV Standard	WP56311
CCV Standard	WP56306
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP56311
Chk Standard	WP56312,WP56313

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	07/11/17 10:41		OK
2	STD2	STD2	CAL2	07/11/17 11:10		OK
3	STD3	STD3	CAL3	07/11/17 11:39		OK
4	STD4	STD4	CAL4	07/11/17 12:08		OK
5	STD5	STD5	CAL5	07/11/17 12:37		OK
6	STD6	STD6	CAL6	07/11/17 13:06		OK
7	STD7	STD7	CAL7	07/11/17 13:35		OK
8	ICV1	ICV1	ICV	07/11/17 15:03		OK
9	ICB1	ICB1	ICB	07/11/17 15:32		OK
10	CCV1	CCV1	CCV	07/13/17 10:41		OK
11	CCB1	CCB1	CCB	07/13/17 11:17		OK
12	LB88715BLW	LB88715BLW	MB	07/13/17 11:46		OK
13	LB88715BSW	LB88715BSW	LCS	07/13/17 12:15		OK
14	I4177-01	POOLWATER	SAM	07/13/17 13:08		OK
15	I4178-01	MAINCELL	SAM	07/13/17 13:36		OK
16	I4179-01	EXCELL	SAM	07/13/17 14:05		OK
17	I4179-01DUP	EXCELLDUP	DUP	07/13/17 14:34		OK
18	I4179-01MS	EXCELLMS	MS	07/13/17 15:03		OK
19	CCV2	CCV2	CCV	07/13/17 15:32		OK
20	CCB2	CCB2	CCB	07/13/17 16:01		OK



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Report of Analysis

Client:		Date Collected:	7/12/2017 12:00:00 AM
Project:	LB88715	Date Received:	7/13/2017 12:00:00 AM
Client Sample ID:	POOLWATER	SDG No.:	LB88715
Lab Sample ID:	I4177-01	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		07/13/2017	300.0
	Chloride	0	U	1	0.075		0.15	mg/L		07/13/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		07/13/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		07/13/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		07/13/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		07/13/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		07/13/2017	300.0



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Report of Analysis

Client:		Date Collected:	7/11/2017 12:00:00 AM
Project:	LB88715	Date Received:	7/13/2017 12:00:00 AM
Client Sample ID:	MAINCELL	SDG No.:	LB88715
Lab Sample ID:	I4178-01	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		07/13/2017	300.0
	Chloride	0	U	1	0.075		0.15	mg/L		07/13/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		07/13/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		07/13/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		07/13/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		07/13/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		07/13/2017	300.0



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Report of Analysis

Client:		Date Collected:	7/11/2017 12:00:00 AM
Project:	LB88715	Date Received:	7/13/2017 12:00:00 AM
Client Sample ID:	EXCELL	SDG No.:	LB88715
Lab Sample ID:	I4179-01	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		07/13/2017	300.0
	Chloride	0	U	1	0.075		0.15	mg/L		07/13/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		07/13/2017	300.0
	Nitrate	0.2		1	0.027		0.13	mg/L		07/13/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		07/13/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		07/13/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		07/13/2017	300.0



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Report of Analysis

Client:		Date Collected:	7/11/2017 12:00:00 AM
Project:	LB88715	Date Received:	7/13/2017 12:00:00 AM
Client Sample ID:	EXCELL	SDG No.:	LB88715
Lab Sample ID:	I4179-01	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



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB88715

SDG No.: LB88715

Contract: _____ Lab Code: CHEM

Case No.: LB88715

SAS No.: LB88715

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	10.3	10	103	0	90 - 110		07/11/2017	15:03	LB88715
	Chloride	3	3	100	0	90 - 110		07/11/2017	15:03	LB88715
	Fluoride	2.1	2	105	0	90 - 110		07/11/2017	15:03	LB88715
	Phosphorus, Ortho	5.3	5	106	0	90 - 110		07/11/2017	15:03	LB88715
	Nitrite	3	3	100	0	90 - 110		07/11/2017	15:03	LB88715
	Nitrate	2.5	2.5	100	0	90 - 110		07/11/2017	15:03	LB88715
	Sulfate	14.7	15	98	0	90 - 110		07/11/2017	15:03	LB88715



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88715

SDG No.: LB88715

Contract: Lab Code: CHEM

Case No.: LB88715

SAS No.: LB88715

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		07/11/2017	15:32	LB88715
	Chloride	0.075	+/-0.15	U		0.15		07/11/2017	15:32	LB88715
	Fluoride	0.043	+/-0.1	U		0.1		07/11/2017	15:32	LB88715
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		07/11/2017	15:32	LB88715
	Nitrite	0.022	+/-0.15	U		0.15		07/11/2017	15:32	LB88715
	Nitrate	0.027	+/-0.13	U		0.13		07/11/2017	15:32	LB88715
	Sulfate	0.13	+/-0.75	U		0.75		07/11/2017	15:32	LB88715

**GENCHEM****- 3a -****INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

Client: LB88715 **SDG No.:** LB88715
Contract: **Lab Code:** CHEM **Case No.:** LB88715 **SAS No.:** LB88715

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		07/13/2017	11:17	LB88715
	Chloride	0.075	+/-0.15	U		0.15		07/13/2017	11:17	LB88715
	Fluoride	0.043	+/-0.1	U		0.1		07/13/2017	11:17	LB88715
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		07/13/2017	11:17	LB88715
	Nitrite	0.022	+/-0.15	U		0.15		07/13/2017	11:17	LB88715
	Nitrate	0.027	+/-0.13	U		0.13		07/13/2017	11:17	LB88715
	Sulfate	0.13	+/-0.75	U		0.75		07/13/2017	11:17	LB88715
CCB2	Bromide	0.066	+/-0.5	U		0.5		07/13/2017	16:01	LB88715
	Chloride	0.075	+/-0.15	U		0.15		07/13/2017	16:01	LB88715
	Fluoride	0.043	+/-0.1	U		0.1		07/13/2017	16:01	LB88715
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		07/13/2017	16:01	LB88715
	Nitrite	0.022	+/-0.15	U		0.15		07/13/2017	16:01	LB88715
	Nitrate	0.027	+/-0.13	U		0.13		07/13/2017	16:01	LB88715
	Sulfate	0.13	+/-0.75	U		0.75		07/13/2017	16:01	LB88715



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88715

SDG No.: LB88715

Contract: Lab Code: CHEM

Case No.: LB88715

SAS No.: LB88715

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

Client: LB88715

SDG No.: LB88715

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
LB88715BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		07/13/2017	11:46	LB88715
	Chloride	0.075	<0.15	U		0.15		07/13/2017	11:46	LB88715
	Fluoride	0.043	<0.1	U		0.1		07/13/2017	11:46	LB88715
	Phosphorus, Ortho	0.01	<0.25	U		0.25		07/13/2017	11:46	LB88715
	Nitrite	0.022	<0.15	U		0.15		07/13/2017	11:46	LB88715
	Nitrate	0.027	<0.13	U		0.13		07/13/2017	11:46	LB88715
	Sulfate	0.13	<0.75	U		0.75		07/13/2017	11:46	LB88715



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MATRIX SPIKE SUMMARY

client: LB88715 level: low sdg no.: LB88715
contract: _____ lab code: CHEM case no.: LB88715 sas no.: LB88715
matrix: WATER sample id: I4179-01 client id: EXCELLMS
Percent Solids for Sample: 0 Spiked ID: I4179-01MS 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	10.3		0.066	U	10	103		
Chloride	mg/L	80 - 120	3.2		0.075	U	3	106.7		
Fluoride	mg/L	80 - 120	2.2		0.043	U	2	110		
Phosphorus, Ortho	mg/L	80 - 120	5.5		0.01	U	5	110		
Nitrite	mg/L	80 - 120	3.1		0.022	U	3	103.3		
Nitrate	mg/L	80 - 120	2.7		0.2		2.5	100		
Sulfate	mg/L	80 - 120	15.3		0.13	U	15	102		

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DUPLICATE SAMPLE SUMMARY

Client: LB88715 **Level:** LOW **SDG No.:** LB88715
Contract: _____ **Lab Code:** CHEM **Case No.:** LB88715 **SAS No.:** LB88715
Matrix: WATER **Sample ID:** I4179-01 **Client ID:** EXCELLDUP
Percent Solids for Sample: 0 **Duplicate ID** I4179-01DUP **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	0.075	U	0	U			
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	0.2		0.2		0		
Sulfate	mg/L	20	0.13	U	0	U			



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB88715

SDG No.: LB88715

Contract:

Lab Code: CHEM

Case No.: LB88715

SAS No.: LB88715

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB88715BSW							
Bromide	mg/L	10	9.9		99	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Fluoride	mg/L	2	2.2		110	90 - 110	
Phosphorus, Ortho	mg/L	5	5.4		108	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	
Nitrate	mg/L	2.5	2.4		96	90 - 110	
Sulfate	mg/L	15	14.4		96	90 - 110	
