

Daily Analysis Runlog For Sequence/QC Batch ID # LB94047

Review By		Review On				
SubDirectory		LB94047		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		wp62836,wp62837,wp62838,wp62839,wp62840,wp62841,wp62842,wp62843				
ICV Standard		wp62844				
CCV Standard		wp62890				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		wp62891				
Chk Standard		WP61543,WP61544				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	03/19/18 11:39		OK
2	STD2	STD2	CAL2	03/19/18 12:11		OK
3	STD3	STD3	CAL3	03/19/18 12:43		OK
4	STD4	STD4	CAL4	03/19/18 13:15		OK
5	STD5	STD5	CAL5	03/19/18 13:47		OK
6	STD6	STD6	CAL6	03/19/18 14:19		OK
7	STD7	STD7	CAL7	03/19/18 14:51		OK
8	ICV1	ICV1	ICV	03/19/18 16:27		OK
9	ICB1	ICB1	ICB	03/19/18 17:23		OK
10	CCV1	CCV1	CCV	03/21/18 12:12		OK
11	CCB1	CCB1	CCB	03/21/18 12:44		OK
12	J2005-07	MW-2-031918	SAM	03/21/18 13:14		OK
13	J2005-08	MW-7-031918	SAM	03/21/18 13:45		OK
14	LB94047BLW	LB94047BLW	MB	03/21/18 14:15		OK
15	LB94047BSW	LB94047BSW	LCS	03/21/18 14:46		OK
16	J2005-01	SUMP-031918	SAM	03/21/18 15:17		OK
17	J2005-06	MW-1-031918	SAM	03/21/18 15:48		OK
18	J2005-08DUP	MW-7-031918DUP	DUP	03/21/18 16:19		OK
19	J2005-08MS	MW-7-031918MS	MS	03/21/18 16:50		OK
20	J2005-08MSD	MW-7-031918MSD	MSD	03/21/18 17:21		OK
21	CCV2	CCV2	CCV	03/21/18 18:54		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB94047

Review By		Review On				
SubDirectory		LB94047		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		wp62836,wp62837,wp62838,wp62839,wp62840,wp62841,wp62842,wp62843				
ICV Standard		wp62844				
CCV Standard		wp62890				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		wp62891				
Chk Standard		WP61543,WP61544				
22	CCB2	CCB2	CCB	03/21/18 19:25		OK
23	CCV3	CCV3	CCV	03/22/18 08:48		OK
24	CCB3	CCB3	CCB	03/22/18 09:19		OK
25	LB94047BLW2	LB94047BLW2	MB	03/22/18 09:50		OK
26	LB94047BSW2	LB94047BSW2	LCS	03/22/18 10:21		OK
27	J2005-07DL	MW-2-031918DL	SAM	03/22/18 10:52		OK
28	J2005-08DL	MW-7-031918DL	SAM	03/22/18 11:23		OK
29	J2005-01DL	SUMP-031918DL	SAM	03/22/18 11:54		OK
30	J2005-06DL	MW-1-031918DL	SAM	03/22/18 12:25		OK
31	CCV4	CCV4	CCV	03/22/18 12:56		OK
32	CCB4	CCB4	CCB	03/22/18 13:27		OK



Report of Analysis

Client:		Date Collected:	3/19/2018 12:00:00 AM
Project:	LB94047	Date Received:	3/21/2018 12:00:00 AM
Client Sample ID:	SUMP-031918	SDG No.:	LB94047
Lab Sample ID:	J2005-01	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		03/21/2018	300.0
	Chloride	1240	OR	1	0.075		0.15	mg/L		03/21/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		03/21/2018	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		03/21/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		03/21/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		03/21/2018	300.0
	Sulfate	54.8	OR	1	0.13		0.75	mg/L		03/21/2018	300.0



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Report of Analysis

Client:		Date Collected:	3/19/2018 12:00:00 AM
Project:	LB94047	Date Received:	3/21/2018 12:00:00 AM
Client Sample ID:	SUMP-031918DL	SDG No.:	LB94047
Lab Sample ID:	J2005-01DL	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	UD	200	13.2		100	mg/L		03/22/2018	300.0
	Chloride	811	D	200	15		30	mg/L		03/22/2018	300.0
	Fluoride	0	UD	200	8.6		20	mg/L		03/22/2018	300.0
	Nitrate	0	UD	200	5.4		25	mg/L		03/22/2018	300.0
	Nitrite	0	UD	200	4.4		30	mg/L		03/22/2018	300.0
	Phosphorus, Ortho	0	UD	200	2		50	mg/L		03/22/2018	300.0
	Sulfate	0	UD	200	26.4		150	mg/L		03/22/2018	300.0



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Report of Analysis

Client:		Date Collected:	3/19/2018 12:00:00 AM
Project:	LB94047	Date Received:	3/21/2018 12:00:00 AM
Client Sample ID:	MW-1-031918	SDG No.:	LB94047
Lab Sample ID:	J2005-06	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		03/21/2018	300.0
	Chloride	1950	OR	1	0.075		0.15	mg/L		03/21/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		03/21/2018	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		03/21/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		03/21/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		03/21/2018	300.0
	Sulfate	68.1	OR	1	0.13		0.75	mg/L		03/21/2018	300.0



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Report of Analysis

Client:		Date Collected:	3/19/2018 12:00:00 AM
Project:	LB94047	Date Received:	3/21/2018 12:00:00 AM
Client Sample ID:	MW-1-031918DL	SDG No.:	LB94047
Lab Sample ID:	J2005-06DL	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	UD	200	13.2		100	mg/L		03/22/2018	300.0
	Chloride	1270	D	200	15		30	mg/L		03/22/2018	300.0
	Fluoride	0	UD	200	8.6		20	mg/L		03/22/2018	300.0
	Nitrate	0	UD	200	5.4		25	mg/L		03/22/2018	300.0
	Nitrite	0	UD	200	4.4		30	mg/L		03/22/2018	300.0
	Phosphorus, Ortho	0	UD	200	2		50	mg/L		03/22/2018	300.0
	Sulfate	0	UD	200	26.4		150	mg/L		03/22/2018	300.0



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Report of Analysis

Client:		Date Collected:	3/19/2018 12:00:00 AM
Project:	LB94047	Date Received:	3/21/2018 12:00:00 AM
Client Sample ID:	MW-2-031918	SDG No.:	LB94047
Lab Sample ID:	J2005-07	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		03/21/2018	300.0
	Chloride	1730	OR	1	0.075		0.15	mg/L		03/21/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		03/21/2018	300.0
	Nitrate	0.27		1	0.027		0.13	mg/L		03/21/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		03/21/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		03/21/2018	300.0
	Sulfate	59.7	OR	1	0.13		0.75	mg/L		03/21/2018	300.0



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Report of Analysis

Client:		Date Collected:	3/19/2018 12:00:00 AM
Project:	LB94047	Date Received:	3/21/2018 12:00:00 AM
Client Sample ID:	MW-2-031918DL	SDG No.:	LB94047
Lab Sample ID:	J2005-07DL	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	UD	200	13.2		100	mg/L		03/22/2018	300.0
	Chloride	1150	D	200	15		30	mg/L		03/22/2018	300.0
	Fluoride	0	UD	200	8.6		20	mg/L		03/22/2018	300.0
	Nitrate	0	UD	200	5.4		25	mg/L		03/22/2018	300.0
	Nitrite	0	UD	200	4.4		30	mg/L		03/22/2018	300.0
	Phosphorus, Ortho	0	UD	200	2		50	mg/L		03/22/2018	300.0
	Sulfate	0	UD	200	26.4		150	mg/L		03/22/2018	300.0



Report of Analysis

Client:		Date Collected:	3/19/2018 12:00:00 AM
Project:	LB94047	Date Received:	3/21/2018 12:00:00 AM
Client Sample ID:	MW-7-031918	SDG No.:	LB94047
Lab Sample ID:	J2005-08	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		03/21/2018	300.0
	Chloride	960	OR	1	0.075		0.15	mg/L		03/21/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		03/21/2018	300.0
	Nitrate	0.9		1	0.027		0.13	mg/L		03/21/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		03/21/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		03/21/2018	300.0
	Sulfate	21.4		1	0.13		0.75	mg/L		03/21/2018	300.0



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Report of Analysis

Client:		Date Collected:	3/19/2018 12:00:00 AM
Project:	LB94047	Date Received:	3/21/2018 12:00:00 AM
Client Sample ID:	MW-7-031918DL	SDG No.:	LB94047
Lab Sample ID:	J2005-08DL	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	UD	200	13.2		100	mg/L		03/22/2018	300.0
	Chloride	625	D	200	15		30	mg/L		03/22/2018	300.0
	Fluoride	0	UD	200	8.6		20	mg/L		03/22/2018	300.0
	Nitrate	0	UD	200	5.4		25	mg/L		03/22/2018	300.0
	Nitrite	0	UD	200	4.4		30	mg/L		03/22/2018	300.0
	Phosphorus, Ortho	0	UD	200	2		50	mg/L		03/22/2018	300.0
	Sulfate	0	UD	200	26.4		150	mg/L		03/22/2018	300.0



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Report of Analysis

Client:		Date Collected:	3/19/2018 12:00:00 AM
Project:	LB94047	Date Received:	3/21/2018 12:00:00 AM
Client Sample ID:	MW-7-031918DL	SDG No.:	LB94047
Lab Sample ID:	J2005-08DL	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: LB94047

SDG No.: LB94047

Contract: _____ Lab Code: CHEM

Case No.: LB94047

SAS No.: LB94047

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Bromide	9.7	10	97		90 - 110		03/19/2018	16:27	LB94047
	Chloride	2.9	3	96.7		90 - 110		03/19/2018	16:27	LB94047
	Fluoride	2	2	100		90 - 110		03/19/2018	16:27	LB94047
	Phosphorus, Ortho	5.3	5	106		90 - 110		03/19/2018	16:27	LB94047
	Nitrite	2.9	3	96.7		90 - 110		03/19/2018	16:27	LB94047
	Nitrate	2.4	2.5	96		90 - 110		03/19/2018	16:27	LB94047
	Sulfate	15.2	15	101.3		90 - 110		03/19/2018	16:27	LB94047



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94047

SDG No.: LB94047

Contract: _____ Lab Code: CHEM

Case No.: LB94047

SAS No.: LB94047

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Bromide	9.6	10	96		90 - 110		03/21/2018	12:12	LB94047
	Chloride	3	3	100		90 - 110		03/21/2018	12:12	LB94047
	Fluoride	1.9	2	95		90 - 110		03/21/2018	12:12	LB94047
	Phosphorus, Ortho	4.9	5	98		90 - 110		03/21/2018	12:12	LB94047
	Nitrite	2.9	3	96.7		90 - 110		03/21/2018	12:12	LB94047
	Nitrate	2.4	2.5	96		90 - 110		03/21/2018	12:12	LB94047
	Sulfate	14.6	15	97.3		90 - 110		03/21/2018	12:12	LB94047
CCV2	Bromide	9.7	10	97		90 - 110		03/21/2018	18:54	LB94047
	Chloride	3	3	100		90 - 110		03/21/2018	18:54	LB94047
	Fluoride	2	2	100		90 - 110		03/21/2018	18:54	LB94047
	Phosphorus, Ortho	5.4	5	108		90 - 110		03/21/2018	18:54	LB94047
	Nitrite	2.9	3	96.7		90 - 110		03/21/2018	18:54	LB94047
	Nitrate	2.4	2.5	96		90 - 110		03/21/2018	18:54	LB94047
	Sulfate	14.7	15	98		90 - 110		03/21/2018	18:54	LB94047
CCV3	Bromide	9.6	10	96		90 - 110		03/22/2018	08:48	LB94047
	Chloride	2.9	3	96.7		90 - 110		03/22/2018	08:48	LB94047
	Fluoride	2.2	2	110		90 - 110		03/22/2018	08:48	LB94047
	Phosphorus, Ortho	4.6	5	92		90 - 110		03/22/2018	08:48	LB94047
	Nitrite	2.9	3	96.7		90 - 110		03/22/2018	08:48	LB94047
	Nitrate	2.4	2.5	96		90 - 110		03/22/2018	08:48	LB94047
	Sulfate	14.4	15	96		90 - 110		03/22/2018	08:48	LB94047
CCV4	Bromide	9.6	10	96		90 - 110		03/22/2018	12:56	LB94047
	Chloride	3	3	100		90 - 110		03/22/2018	12:56	LB94047
	Fluoride	1.9	2	95		90 - 110		03/22/2018	12:56	LB94047
	Phosphorus, Ortho	5.2	5	104		90 - 110		03/22/2018	12:56	LB94047
	Nitrite	2.9	3	96.7		90 - 110		03/22/2018	12:56	LB94047
	Nitrate	2.4	2.5	96		90 - 110		03/22/2018	12:56	LB94047
	Sulfate	14.5	15	96.7		90 - 110		03/22/2018	12:56	LB94047

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		03/19/2018	17:23	LB94047
	Chloride	0.075	+/-0.15	U		0.15		03/19/2018	17:23	LB94047
	Fluoride	0.043	+/-0.1	U		0.1		03/19/2018	17:23	LB94047
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/19/2018	17:23	LB94047
	Nitrite	0.022	+/-0.15	U		0.15		03/19/2018	17:23	LB94047
	Nitrate	0.027	+/-0.13	U		0.13		03/19/2018	17:23	LB94047
	Sulfate	0.13	+/-0.75	U		0.75		03/19/2018	17:23	LB94047

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		03/21/2018	12:44	LB94047
	Chloride	0.075	+/-0.15	U		0.15		03/21/2018	12:44	LB94047
	Fluoride	0.043	+/-0.1	U		0.1		03/21/2018	12:44	LB94047
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/21/2018	12:44	LB94047
	Nitrite	0.022	+/-0.15	U		0.15		03/21/2018	12:44	LB94047
	Nitrate	0.027	+/-0.13	U		0.13		03/21/2018	12:44	LB94047
	Sulfate	0.13	+/-0.75	U		0.75		03/21/2018	12:44	LB94047
CCB2	Bromide	0.066	+/-0.5	U		0.5		03/21/2018	19:25	LB94047
	Chloride	0.075	+/-0.15	U		0.15		03/21/2018	19:25	LB94047
	Fluoride	0.043	+/-0.1	U		0.1		03/21/2018	19:25	LB94047
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/21/2018	19:25	LB94047
	Nitrite	0.022	+/-0.15	U		0.15		03/21/2018	19:25	LB94047
	Nitrate	0.027	+/-0.13	U		0.13		03/21/2018	19:25	LB94047
	Sulfate	0.13	+/-0.75	U		0.75		03/21/2018	19:25	LB94047
CCB3	Bromide	0.066	+/-0.5	U		0.5		03/22/2018	09:19	LB94047
	Chloride	0.075	+/-0.15	U		0.15		03/22/2018	09:19	LB94047
	Fluoride	0.043	+/-0.1	U		0.1		03/22/2018	09:19	LB94047
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/22/2018	09:19	LB94047
	Nitrite	0.022	+/-0.15	U		0.15		03/22/2018	09:19	LB94047
	Nitrate	0.027	+/-0.13	U		0.13		03/22/2018	09:19	LB94047
	Sulfate	0.13	+/-0.75	U		0.75		03/22/2018	09:19	LB94047
CCB4	Bromide	0.066	+/-0.5	U		0.5		03/22/2018	13:27	LB94047
	Chloride	0.075	+/-0.15	U		0.15		03/22/2018	13:27	LB94047
	Fluoride	0.043	+/-0.1	U		0.1		03/22/2018	13:27	LB94047
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/22/2018	13:27	LB94047
	Nitrite	0.022	+/-0.15	U		0.15		03/22/2018	13:27	LB94047
	Nitrate	0.027	+/-0.13	U		0.13		03/22/2018	13:27	LB94047
	Sulfate	0.13	+/-0.75	U		0.75		03/22/2018	13:27	LB94047



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94047

SDG No.: LB94047

Contract: Lab Code: CHEM

Case No.: LB94047

SAS No.: LB94047

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB94047

SDG No.: LB94047

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
LB94047BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		03/21/2018	14:15	LB94047
	Chloride	0.075	<0.15	U		0.15		03/21/2018	14:15	LB94047
	Fluoride	0.043	<0.1	U		0.1		03/21/2018	14:15	LB94047
	Phosphorus, Ortho	0.01	<0.25	U		0.25		03/21/2018	14:15	LB94047
	Nitrite	0.022	<0.15	U		0.15		03/21/2018	14:15	LB94047
	Nitrate	0.027	<0.13	U		0.13		03/21/2018	14:15	LB94047
	Sulfate	0.13	<0.75	U		0.75		03/21/2018	14:15	LB94047
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB94047BLW2		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		03/22/2018	09:50	LB94047
	Chloride	0.075	<0.15	U		0.15		03/22/2018	09:50	LB94047
	Fluoride	0.043	<0.1	U		0.1		03/22/2018	09:50	LB94047
	Phosphorus, Ortho	0.01	<0.25	U		0.25		03/22/2018	09:50	LB94047
	Nitrite	0.022	<0.15	U		0.15		03/22/2018	09:50	LB94047
	Nitrate	0.027	<0.13	U		0.13		03/22/2018	09:50	LB94047
	Sulfate	0.13	<0.75	U		0.75		03/22/2018	09:50	LB94047



GENCHEM
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MATRIX SPIKE SUMMARY

client: LB94047 level: low sdg no.: LB94047
contract: _____ lab code: CHEM case no.: LB94047 sas no.: LB94047
matrix: WATER sample id: J2005-08 client id: MW-7-031918MS
Percent Solids for Sample: 0 Spiked ID: J2005-08MS 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		0.066	U	10	100		
Chloride	mg/L	80 - 120	878	OR	960	OR	3	-2733	*	
Fluoride	mg/L	80 - 120	2.1		0.043	U	2	105		
Phosphorus, Ortho	mg/L	80 - 120	7.1		0.01	U	5	142	*	
Nitrite	mg/L	80 - 120	1.9		0.022	U	3	63.3	*	
Nitrate	mg/L	80 - 120	3.2		0.9		2.5	92		
Sulfate	mg/L	80 - 120	34.9		21.4		15	90		



GENCHEM
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MATRIX SPIKE DUPLICATE SUMMARY

client: LB94047 **level:** low **sdg no.:** LB94047
contract: **lab code:** CHEM **case no.:** LB94047 **sas no.:** LB94047
matrix: WATER **sample id:** J2005-08 **client id:** MW-7-031918MSD
Percent Solids for Sample: 0 **Spiked ID:** J2005-08MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance	MSD	Sample		Spike	%	Qual	M
		Limit %R	Result	C	Result	C	Added	Recovery	
Bromide	mg/L	80 - 120	10		0.066	U	10	100	
Chloride	mg/L	80 - 120	866	OR	960	OR	3	-3133	*
Fluoride	mg/L	80 - 120	2.3		0.043	U	2	115	
Phosphorus, Ortho	mg/L	80 - 120	7.5		0.01	U	5	150	*
Nitrite	mg/L	80 - 120	2		0.022	U	3	66.7	*
Nitrate	mg/L	80 - 120	3.2		0.9		2.5	92	
Sulfate	mg/L	80 - 120	35.2		21.4		15	92	

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DUPLICATE SAMPLE SUMMARY

Client: LB94047 **Level:** LOW **SDG No.:** LB94047
Contract: **Lab Code:** CHEM **Case No.:** LB94047 **SAS No.:** LB94047
Matrix: WATER **Sample ID:** J2005-08 **Client ID:** MW-7-031918DUP
Percent Solids for Sample: 0 **Duplicate ID** J2005-08DUP **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	960	OR	967	OR	1		
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	0.9		0.91		1		
Sulfate	mg/L	20	21.4		20.5		4		

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DUPLICATE SAMPLE SUMMARY

Client: LB94047 **Level:** LOW **SDG No.:** LB94047
Contract: _____ **Lab Code:** CHEM **Case No.:** LB94047 **SAS No.:** LB94047
Matrix: WATER **Sample ID:** J2005-08MS **Client ID:** MW-7-031918MSD
Percent Solids for Sample: 0 **Duplicate ID** J2005-08MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bromide	mg/L	20	10		10		0		
Chloride	mg/L	20	878	OR	866	OR	1		
Fluoride	mg/L	20	2.1		2.3		9		
Phosphorus, Ortho	mg/L	20	7.1		7.5		5		
Nitrite	mg/L	20	1.9		2		5		
Nitrate	mg/L	20	3.2		3.2		0		
Sulfate	mg/L	20	34.9		35.2		1		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94047

SDG No.: LB94047

Contract:

Lab Code: CHEM

Case No.: LB94047

SAS No.: LB94047

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB94047BSW							
Bromide	mg/L	10	9.4		94	90 - 110	
Chloride	mg/L	3	2.8		93.3	90 - 110	
Fluoride	mg/L	2	1.9		95	90 - 110	
Phosphorus, Ortho	mg/L	5	5.1		102	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	
Nitrate	mg/L	2.5	2.3		92	90 - 110	
Sulfate	mg/L	15	14.7		98	90 - 110	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94047

SDG No.: LB94047

Contract:

Lab Code: CHEM

Case No.: LB94047

SAS No.: LB94047

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB94047BSW2							
Bromide	mg/L	10	9.2		92	90 - 110	
Chloride	mg/L	3	2.8		93.3	90 - 110	
Fluoride	mg/L	2	1.9		95	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	2.3		92	90 - 110	
Sulfate	mg/L	15	14.5		96.7	90 - 110	
