

Daily Analysis Runlog For Sequence/QC Batch ID # LB94356

Review By		Review On				
SubDirectory		LB94356		Test : Anions		

STD. NAME	STD REF.#
ICAL Standard	wp62836,wp62837,wp62838,wp62839,wp62840,wp62841,wp62842,wp62843
ICV Standard	wp62844
CCV Standard	WP63321
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP63326
Chk Standard	wp63267,wp63269

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	03/19/18 11:39		
2	STD2	STD2	CAL2	03/19/18 12:11		
3	STD3	STD3	CAL3	03/19/18 12:43		
4	STD4	STD4	CAL4	03/19/18 13:15		
5	STD5	STD5	CAL5	03/19/18 13:47		
6	STD6	STD6	CAL6	03/19/18 14:19		
7	STD7	STD7	CAL7	03/19/18 14:51		
8	ICV1	ICV1	ICV	03/19/18 16:27		
9	ICB1	ICB1	ICB	03/19/18 17:23		
10	CCV1	CCV1	CCV	04/03/18 09:20		
11	CCB1	CCB1	CCB	04/03/18 10:04		
12	LB94356BLW	LB94356BLW	MB	04/03/18 14:15		
13	LB94356BSW	LB94356BSW	LCS	04/03/18 15:48		
14	J2206-01	FINAL-EFFLUENT-1	SAM	04/03/18 18:53		
15	J2206-01DUP	FINAL-EFFLUENT-1	DUP	04/03/18 19:24		
16	J2206-01MS	FINAL-EFFLUENT-1	MS	04/03/18 19:55		
17	CCV2	CCV2	CCV	04/03/18 20:26		
18	CCB2	CCB2	CCB	04/03/18 20:57		



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Report of Analysis

Client:		Date Collected:	4/3/2018 12:00:00 AM
Project:	LB94356	Date Received:	4/3/2018 12:00:00 AM
Client Sample ID:	FINAL-EFFLUENT-19C	SDG No.:	LB94356
Lab Sample ID:	J2206-01	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	1.1		1	0.066		0.5	mg/L		04/03/2018	300.0
	Chloride	504	OR	1	0.075		0.15	mg/L		04/03/2018	300.0
	Fluoride	0.22		1	0.043		0.1	mg/L		04/03/2018	300.0
	Nitrate	0.37		1	0.027		0.13	mg/L		04/03/2018	300.0
	Nitrite	0.55		1	0.022		0.15	mg/L		04/03/2018	300.0
	Phosphorus, Ortho	1.3		1	0.01		0.25	mg/L		04/03/2018	300.0
	Sulfate	3.8		1	0.13		0.75	mg/L		04/03/2018	300.0



Report of Analysis

Client:		Date Collected:	4/3/2018 12:00:00 AM
Project:	LB94356	Date Received:	4/3/2018 12:00:00 AM
Client Sample ID:	FINAL-EFFLUENT-19C	SDG No.:	LB94356
Lab Sample ID:	J2206-01	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: LB94356

SDG No.: LB94356

Contract: _____ Lab Code: CHEM

Case No.: LB94356

SAS No.: LB94356

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	LB94356
	Chloride	2.9	3	96.7		90 - 110		03/19/2018	16:27	LB94356
	Fluoride	2	2	100		90 - 110		03/19/2018	16:27	LB94356
	Phosphorus, Ortho	5.3	5	106		90 - 110		03/19/2018	16:27	LB94356
	Nitrite	2.9	3	96.7		90 - 110		03/19/2018	16:27	LB94356
	Nitrate	2.4	2.5	96		90 - 110		03/19/2018	16:27	LB94356
	Sulfate	15.2	15	101.3		90 - 110		03/19/2018	16:27	LB94356



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94356

SDG No.: LB94356

Contract: _____ Lab Code: CHEM

Case No.: LB94356

SAS No.: LB94356

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	9.8	10	98		90 - 110		04/03/2018	09:20	LB94356
	Chloride	3	3	100		90 - 110		04/03/2018	09:20	LB94356
	Fluoride	2.1	2	105		90 - 110		04/03/2018	09:20	LB94356
	Phosphorus, Ortho	5.2	5	104		90 - 110		04/03/2018	09:20	LB94356
	Nitrite	3	3	100		90 - 110		04/03/2018	09:20	LB94356
	Nitrate	2.4	2.5	96		90 - 110		04/03/2018	09:20	LB94356
	Sulfate	14.8	15	98.7		90 - 110		04/03/2018	09:20	LB94356
CCV2	Bromide	9.6	10	96		90 - 110		04/03/2018	20:26	LB94356
	Chloride	3	3	100		90 - 110		04/03/2018	20:26	LB94356
	Fluoride	1.7	2	85	*	90 - 110		04/03/2018	20:26	LB94356
	Phosphorus, Ortho	5.3	5	106		90 - 110		04/03/2018	20:26	LB94356
	Nitrite	2.9	3	96.7		90 - 110		04/03/2018	20:26	LB94356
	Nitrate	2.4	2.5	96		90 - 110		04/03/2018	20:26	LB94356
	Sulfate	14.4	15	96		90 - 110		04/03/2018	20:26	LB94356



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94356

SDG No.: LB94356

Contract: Lab Code: CHEM

Case No.: LB94356

SAS No.: LB94356

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	LB94356
	Chloride	0.075	+/-0.15	U		0.15		03/19/2018	17:23	LB94356
	Fluoride	0.043	+/-0.1	U		0.1		03/19/2018	17:23	LB94356
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/19/2018	17:23	LB94356
	Nitrite	0.022	+/-0.15	U		0.15		03/19/2018	17:23	LB94356
	Nitrate	0.027	+/-0.13	U		0.13		03/19/2018	17:23	LB94356
	Sulfate	0.13	+/-0.75	U		0.75		03/19/2018	17:23	LB94356



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94356

SDG No.: LB94356

Contract:

Lab Code: CHEM

Case No.: LB94356

SAS No.: LB94356

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		04/03/2018	10:04	LB94356
	Chloride	0.075	+/-0.15	U		0.15		04/03/2018	10:04	LB94356
	Fluoride	0.043	+/-0.1	U		0.1		04/03/2018	10:04	LB94356
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/03/2018	10:04	LB94356
	Nitrite	0.022	+/-0.15	U		0.15		04/03/2018	10:04	LB94356
	Nitrate	0.027	+/-0.13	U		0.13		04/03/2018	10:04	LB94356
	Sulfate	0.13	+/-0.75	U		0.75		04/03/2018	10:04	LB94356
CCB2	Bromide	0.066	+/-0.5	U		0.5		04/03/2018	20:57	LB94356
	Chloride	0.075	+/-0.15	U		0.15		04/03/2018	20:57	LB94356
	Fluoride	0.043	+/-0.1	U		0.1		04/03/2018	20:57	LB94356
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/03/2018	20:57	LB94356
	Nitrite	0.022	+/-0.15	U		0.15		04/03/2018	20:57	LB94356
	Nitrate	0.027	+/-0.13	U		0.13		04/03/2018	20:57	LB94356
	Sulfate	0.13	+/-0.75	U		0.75		04/03/2018	20:57	LB94356



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94356

SDG No.: LB94356

Contract: Lab Code: CHEM

Case No.: LB94356

SAS No.: LB94356

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: LB94356

SDG No.: LB94356

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
LB94356BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		04/03/2018	14:15	LB94356
	Chloride	0.075	<0.15	U		0.15		04/03/2018	14:15	LB94356
	Fluoride	0.043	<0.1	U		0.1		04/03/2018	14:15	LB94356
	Phosphorus, Ortho	0.01	<0.25	U		0.25		04/03/2018	14:15	LB94356
	Nitrite	0.022	<0.15	U		0.15		04/03/2018	14:15	LB94356
	Nitrate	0.027	<0.13	U		0.13		04/03/2018	14:15	LB94356
	Sulfate	0.13	<0.75	U		0.75		04/03/2018	14:15	LB94356



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- 5a -
MATRIX SPIKE SUMMARY

client: LB94356 **level:** low **sdg no.:** LB94356
contract: **lab code:** CHEM **case no.:** LB94356 **sas no.:** LB94356
matrix: WATER **sample id:** J2206-01 **client id:** FINAL-EFFLUENT-19CMS
Percent Solids for Sample: 0 **Spiked ID:** J2206-01MS **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance	Spiked	Sample		Spike	%	Qual	M
		Limit %R	Result	C	Result	C	Added	Recovery	
Bromide	mg/L	80 - 120	10.6		1.1		10	95	
Chloride	mg/L	80 - 120	450	OR	504	OR	3	-1800	*
Fluoride	mg/L	80 - 120	2.4		0.22		2	109	
Phosphorus, Ortho	mg/L	80 - 120	5.9		1.3		5	92	
Nitrite	mg/L	80 - 120	2.2		0.55		3	55	*
Nitrate	mg/L	80 - 120	2.8		0.37		2.5	97	
Sulfate	mg/L	80 - 120	18.2		3.8		15	96	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94356

SDG No.: LB94356

Contract:

Lab Code: CHEM

Case No.: LB94356

SAS No.: LB94356

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB94356BSW							
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		100	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	14.3		95.3	90 - 110	
