

Daily Analysis Runlog For Sequence/QC Batch ID # LB94590

Review By

SubDirectory

Review On

Test : Anions

LB94590

STD. NAME		STD REF.#				
ICAL Standard		wp62836,wp62837,wp62838,wp62839,wp62840,wp62841,wp62842,wp62843				
ICV Standard		wp62844				
CCV Standard		WP63646				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP63647				
Chk Standard		WP63116,WP63117,WP63648,WP63649				

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	04/12/18 08:24		OK
11	CCB1	CCB1	CCB	04/12/18 08:55		OK
12	LB94590BLW	LB94590BLW	MB	04/12/18 09:26		OK
13	LB94590BSW	LB94590BSW	LCS	04/12/18 09:57		OK
14	J2133-07	LOD-MDL-WATER-0	SAM	04/12/18 10:33	Use for all except OPO4	OK
15	J2133-09	MDL-WATER-03-QT2	SAM	04/12/18 11:04	Use for all except OPO4	OK
16	J2133-07	LOD-MDL-WATER-0	SAM	04/12/18 11:34	Use for OPO4	OK
17	J2133-09	MDL-WATER-03-QT2	SAM	04/12/18 12:05	Use for OPO4	OK
18	J2133-08	LOQ-WATER-02-QT2	LOQ	04/12/18 12:36		OK
19	CCV2	CCV2	CCV	04/12/18 14:17		OK
20	CCB2	CCB2	CCB	04/12/18 14:48		OK

Report of Analysis

Client:		Date Collected:	3/29/2018 12:00:00 AM
Project:	LB94590	Date Received:	3/29/2018 12:00:00 AM
Client Sample ID:	LOD-MDL-WATER-01-QT2-2018	SDG No.:	LB94590
Lab Sample ID:	J2133-07	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	0.68		1	0.066		0.5	mg/L		04/12/2018	9056
	Bromide	0.91		1	0.066		0.5	mg/L		04/12/2018	9056
	Bromide	0.68		1	0.066		0.5	mg/L		04/12/2018	9056
	Bromide	0.91		1	0.066		0.5	mg/L		04/12/2018	9056
	Chloride	0.19		1	0.075		0.15	mg/L		04/12/2018	9056
	Chloride	0.26		1	0.075		0.15	mg/L		04/12/2018	9056
	Chloride	0.19		1	0.075		0.15	mg/L		04/12/2018	9056
	Chloride	0.26		1	0.075		0.15	mg/L		04/12/2018	9056
	Fluoride	0.14		1	0.043		0.1	mg/L		04/12/2018	9056
	Fluoride	0.14		1	0.043		0.1	mg/L		04/12/2018	9056
	Fluoride	0.14		1	0.043		0.1	mg/L		04/12/2018	9056
	Fluoride	0.14		1	0.043		0.1	mg/L		04/12/2018	9056
	Nitrate	0.17		1	0.027		0.11	mg/L		04/12/2018	9056
	Nitrate	0.23		1	0.027		0.11	mg/L		04/12/2018	9056
	Nitrate	0.17		1	0.027		0.11	mg/L		04/12/2018	9056
	Nitrate	0.23		1	0.027		0.11	mg/L		04/12/2018	9056
	Nitrite	0.19		1	0.022		0.15	mg/L		04/12/2018	9056
	Nitrite	0.26		1	0.022		0.15	mg/L		04/12/2018	9056
	Nitrite	0.19		1	0.022		0.15	mg/L		04/12/2018	9056
	Nitrite	0.26		1	0.022		0.15	mg/L		04/12/2018	9056
	Phosphorus, Ortho	-0.086	U	1	0.01		0.24	mg/L		04/12/2018	9056
	Phosphorus, Ortho	0.12	J	1	0.01		0.24	mg/L		04/12/2018	9056
	Phosphorus, Ortho	-0.086	U	1	0.01		0.24	mg/L		04/12/2018	9056
	Phosphorus, Ortho	0.12	J	1	0.01		0.24	mg/L		04/12/2018	9056
	Sulfate	1		1	0.13		0.75	mg/L		04/12/2018	9056
	Sulfate	1.4		1	0.13		0.75	mg/L		04/12/2018	9056
	Sulfate	1		1	0.13		0.75	mg/L		04/12/2018	9056
	Sulfate	1.4		1	0.13		0.75	mg/L		04/12/2018	9056

Report of Analysis

Client:		Date Collected:	3/29/2018 12:00:00 AM
Project:	LB94590	Date Received:	3/29/2018 12:00:00 AM
Client Sample ID:	MDL-WATER-03-QT2-2018	SDG No.:	LB94590
Lab Sample ID:	J2133-09	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	0.7		1	0.066		0.5	mg/L		04/12/2018	9056
	Bromide	0.9		1	0.066		0.5	mg/L		04/12/2018	9056
	Bromide	0.7		1	0.066		0.5	mg/L		04/12/2018	9056
	Bromide	0.9		1	0.066		0.5	mg/L		04/12/2018	9056
	Chloride	0.19		1	0.075		0.15	mg/L		04/12/2018	9056
	Chloride	0.26		1	0.075		0.15	mg/L		04/12/2018	9056
	Chloride	0.19		1	0.075		0.15	mg/L		04/12/2018	9056
	Chloride	0.26		1	0.075		0.15	mg/L		04/12/2018	9056
	Fluoride	0.13		1	0.043		0.1	mg/L		04/12/2018	9056
	Fluoride	0.14		1	0.043		0.1	mg/L		04/12/2018	9056
	Fluoride	0.13		1	0.043		0.1	mg/L		04/12/2018	9056
	Fluoride	0.14		1	0.043		0.1	mg/L		04/12/2018	9056
	Nitrate	0.18		1	0.027		0.11	mg/L		04/12/2018	9056
	Nitrate	0.23		1	0.027		0.11	mg/L		04/12/2018	9056
	Nitrate	0.18		1	0.027		0.11	mg/L		04/12/2018	9056
	Nitrate	0.23		1	0.027		0.11	mg/L		04/12/2018	9056
	Nitrite	0.19		1	0.022		0.15	mg/L		04/12/2018	9056
	Nitrite	0.25		1	0.022		0.15	mg/L		04/12/2018	9056
	Nitrite	0.19		1	0.022		0.15	mg/L		04/12/2018	9056
	Nitrite	0.25		1	0.022		0.15	mg/L		04/12/2018	9056
	Phosphorus, Ortho	-0.048	U	1	0.01		0.24	mg/L		04/12/2018	9056
	Phosphorus, Ortho	0.15	J	1	0.01		0.24	mg/L		04/12/2018	9056
	Phosphorus, Ortho	-0.048	U	1	0.01		0.24	mg/L		04/12/2018	9056
	Phosphorus, Ortho	0.15	J	1	0.01		0.24	mg/L		04/12/2018	9056
	Sulfate	1		1	0.13		0.75	mg/L		04/12/2018	9056
	Sulfate	1.4		1	0.13		0.75	mg/L		04/12/2018	9056
	Sulfate	1		1	0.13		0.75	mg/L		04/12/2018	9056
	Sulfate	1.4		1	0.13		0.75	mg/L		04/12/2018	9056



Report of Analysis

Client:		Date Collected:	3/29/2018 12:00:00 AM
Project:	LB94590	Date Received:	3/29/2018 12:00:00 AM
Client Sample ID:	MDL-WATER-03-QT2-2018	SDG No.:	LB94590
Lab Sample ID:	J2133-09	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
-----	-----------	-------	------	----	-----	-----	------------	-------	-----------	-----------	----------

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: LB94590

SDG No.: LB94590

Contract: _____ Lab Code: CHEM

Case No.: LB94590

SAS No.: LB94590

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	lb94590
	Chloride	2.9	3	96.7		90 - 110		03/19/2018	16:27	lb94590
	Fluoride	2	2	100		90 - 110		03/19/2018	16:27	lb94590
	Phosphorus, Ortho	5.3	5	106		90 - 110		03/19/2018	16:27	lb94590
	Nitrite	2.9	3	96.7		90 - 110		03/19/2018	16:27	lb94590
	Nitrate	2.4	2.5	96		90 - 110		03/19/2018	16:27	lb94590
	Sulfate	15.2	15	101.3		90 - 110		03/19/2018	16:27	lb94590



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94590

SDG No.: LB94590

Contract: **Lab Code:** CHEM

Case No.: LB94590

SAS No.: LB94590

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	lb94590
	Chloride	0.075	+/-0.15	U		0.15		03/19/2018	17:23	lb94590
	Fluoride	0.043	+/-0.1	U		0.1		03/19/2018	17:23	lb94590
	Phosphorus, Ortho	0.01	+/-0.24	U		0.24		03/19/2018	17:23	lb94590
	Nitrite	0.022	+/-0.15	U		0.15		03/19/2018	17:23	lb94590
	Nitrate	0.027	+/-0.11	U		0.11		03/19/2018	17:23	lb94590
	Sulfate	0.13	+/-0.75	U		0.75		03/19/2018	17:23	lb94590



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94590

SDG No.: LB94590

Contract:

Lab Code: CHEM

Case No.: LB94590

SAS No.: LB94590

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		04/12/2018	08:55	lb94590
	Chloride	0.075	+/-0.15	U		0.15		04/12/2018	08:55	lb94590
	Fluoride	0.043	+/-0.1	U		0.1		04/12/2018	08:55	lb94590
	Phosphorus, Ortho	0.01	+/-0.24	U		0.24		04/12/2018	08:55	lb94590
	Nitrite	0.022	+/-0.15	U		0.15		04/12/2018	08:55	lb94590
	Nitrate	0.027	+/-0.11	U		0.11		04/12/2018	08:55	lb94590
	Sulfate	0.13	+/-0.75	U		0.75		04/12/2018	08:55	lb94590
CCB2	Bromide	0.066	+/-0.5	U		0.5		04/12/2018	14:48	lb94590
	Chloride	0.075	+/-0.15	U		0.15		04/12/2018	14:48	lb94590
	Fluoride	0.043	+/-0.1	U		0.1		04/12/2018	14:48	lb94590
	Phosphorus, Ortho	0.01	+/-0.24	U		0.24		04/12/2018	14:48	lb94590
	Nitrite	0.022	+/-0.15	U		0.15		04/12/2018	14:48	lb94590
	Nitrate	0.027	+/-0.11	U		0.11		04/12/2018	14:48	lb94590
	Sulfate	0.13	+/-0.75	U		0.75		04/12/2018	14:48	lb94590



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94590

SDG No.: LB94590

Contract: Lab Code: CHEM

Case No.: LB94590

SAS No.: LB94590

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
-----------	---------	----------------	---------------------	--------------	-----	------	---	------------------	------------------	---------------



GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB94590

SDG No.: LB94590

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
LB94590BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		04/12/2018	09:26	lb94590
	Chloride	0.075	<0.15	U		0.15		04/12/2018	09:26	lb94590
	Fluoride	0.043	<0.1	U		0.1		04/12/2018	09:26	lb94590
	Phosphorus, Ortho	0.01	<0.24	U		0.24		04/12/2018	09:26	lb94590
	Nitrite	0.022	<0.15	U		0.15		04/12/2018	09:26	lb94590
	Nitrate	0.027	<0.11	U		0.11		04/12/2018	09:26	lb94590
	Sulfate	0.13	<0.75	U		0.75		04/12/2018	09:26	lb94590



GENCHEM
- 5a -

client: _____ level: low sdg no.: _____

contract: _____ lab code: _____ case no.: _____ sas no.: _____

matrix: _____ sample id: _____ client id: _____

Percent Solids for Sample: _____ Spiked ID: _____ Percent Solids for Spike Sample: _____

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M
---------	-------	------------------------	---	------------------	---	----------------	---------------	------	---



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94590 **SDG No.:** LB94590
Contract: **Lab Code:** CHEM **Case No.:** LB94590 **SAS No.:** LB94590

					%	Acceptance	M
Analyte	Units	True Value	Result	C	Recovery	Limits	
J2133-08							
Bromide	mg/L	1	1.3		130	50 - 150	
Chloride	mg/L	0.3	0.37		123.3	50 - 150	
Fluoride	mg/L	0.2	0.23		115	50 - 150	
Phosphorus, Ortho	mg/L	0.48	0.48		100	50 - 150	
Nitrite	mg/L	0.3	0.38		126.7	50 - 150	
Nitrate	mg/L	0.23	0.34		147.8	50 - 150	
Sulfate	mg/L	1.5	2.1		140	50 - 150	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94590

SDG No.: LB94590

Contract:

Lab Code: CHEM

Case No.: LB94590

SAS No.: LB94590

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB94590BSW							
Bromide	mg/L	10	9.5		95	90 - 110	
Chloride	mg/L	3	2.9		96.7	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	14.8		98.7	90 - 110	
