

Daily Analysis Runlog For Sequence/QC Batch ID # LB92340

Review By

Review On

SubDirectory

LB92340

Test :

Anions

STD. NAME	STD REF.#
ICAL Standard	WP60078,WP60079,WP60080,WP60081,WP60082,WP60083,WP60084
ICV Standard	WP60085
CCV Standard	WP60435
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP60436
Chk Standard	WP60018,WP60019

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	12/04/17 10:36		OK
2	STD2	STD2	CAL2	12/04/17 11:08		OK
3	STD3	STD3	CAL3	12/04/17 11:40		OK
4	STD4	STD4	CAL4	12/04/17 12:12		OK
5	STD5	STD5	CAL5	12/04/17 12:44		OK
6	STD6	STD6	CAL6	12/04/17 13:16		OK
7	STD7	STD7	CAL7	12/04/17 13:48		OK
8	ICV1	ICV1	ICV	12/04/17 14:19		OK
9	ICB1	ICB1	ICB	12/04/17 14:51		OK
10	CCV1	CCV1	CCV	12/21/17 10:35		OK
11	CCB1	CCB1	CCB	12/21/17 11:09		OK
12	LB92340BLW	LB92340BLW	MB	12/21/17 11:40		OK
13	LB92340BSW	LB92340BSW	LCS	12/21/17 12:11		OK
14	I7011-02RE	MW-1-121917RE	SAM	12/21/17 12:42		OK
15	I7011-03RE	MW-2-121917RE	SAM	12/21/17 13:13		OK
16	I7011-05RE	SVMP-121917RE	SAM	12/21/17 13:44		OK
17	I7011-06RE	MW-8S-121917RE	SAM	12/21/17 14:15		OK
18	I7011-03DUP	MW-2-121917DUP	DUP	12/21/17 14:46		OK
19	I7011-03MS	MW-2-121917MS	MS	12/21/17 15:17		OK
20	CCV2	CCV2	CCV	12/21/17 15:48	OPO4 fail	OK
21	CCB2	CCB2	CCB	12/21/17 16:19		OK

Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92340	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-1-121917RE	SDG No.:	LB92340
Lab Sample ID:	I7011-02RE	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		12/21/2017	300.0
	Chloride	231	OR	1	0.075		0.15	mg/L		12/21/2017	300.0
	Fluoride	0.14		1	0.043		0.1	mg/L		12/21/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		12/21/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/21/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/21/2017	300.0
	Sulfate	13.1		1	0.13		0.75	mg/L		12/21/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92340	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-2-121917RE	SDG No.:	LB92340
Lab Sample ID:	I7011-03RE	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		12/21/2017	300.0
	Chloride	241	OR	1	0.075		0.15	mg/L		12/21/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		12/21/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		12/21/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/21/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/21/2017	300.0
	Sulfate	23.9		1	0.13		0.75	mg/L		12/21/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92340	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	SVMP-121917RE	SDG No.:	LB92340
Lab Sample ID:	I7011-05RE	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		12/21/2017	300.0
	Chloride	250	OR	1	0.075		0.15	mg/L		12/21/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		12/21/2017	300.0
	Nitrate	0.16		1	0.027		0.13	mg/L		12/21/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/21/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/21/2017	300.0
	Sulfate	21.7		1	0.13		0.75	mg/L		12/21/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92340	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-8S-121917RE	SDG No.:	LB92340
Lab Sample ID:	I7011-06RE	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	0.64		1	0.066		0.5	mg/L		12/21/2017	300.0
	Chloride	368	OR	1	0.075		0.15	mg/L		12/21/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		12/21/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		12/21/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/21/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/21/2017	300.0
	Sulfate	11.2		1	0.13		0.75	mg/L		12/21/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92340	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-8S-121917RE	SDG No.:	LB92340
Lab Sample ID:	I7011-06RE	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: LB92340

SDG No.: LB92340

Contract: _____ Lab Code: CHEM

Case No.: LB92340

SAS No.: LB92340

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	9.7	10	97	0	90 - 110		12/04/2017	14:19	LB92340
	Chloride	2.9	3	96.7	0	90 - 110		12/04/2017	14:19	LB92340
	Fluoride	2.1	2	105	0	90 - 110		12/04/2017	14:19	LB92340
	Phosphorus, Ortho	5.2	5	104	0	90 - 110		12/04/2017	14:19	LB92340
	Nitrite	2.9	3	96.7	0	90 - 110		12/04/2017	14:19	LB92340
	Nitrate	2.4	2.5	96	0	90 - 110		12/04/2017	14:19	LB92340
	Sulfate	14.3	15	95.3	0	90 - 110		12/04/2017	14:19	LB92340



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92340

SDG No.: LB92340

Contract: _____ Lab Code: CHEM

Case No.: LB92340

SAS No.: LB92340

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
CCV1	Bromide	9.4	10	94	0	90 - 110		12/21/2017	10:35	LB92340
	Chloride	2.8	3	93.3	0	90 - 110		12/21/2017	10:35	LB92340
	Fluoride	1.9	2	95	0	90 - 110		12/21/2017	10:35	LB92340
	Phosphorus, Ortho	4.9	5	98	0	90 - 110		12/21/2017	10:35	LB92340
	Nitrite	2.8	3	93.3	0	90 - 110		12/21/2017	10:35	LB92340
	Nitrate	2.4	2.5	96	0	90 - 110		12/21/2017	10:35	LB92340
	Sulfate	14	15	93.3	0	90 - 110		12/21/2017	10:35	LB92340
CCV2	Bromide	9.4	10	94	0	90 - 110		12/21/2017	15:48	LB92340
	Chloride	2.8	3	93.3	0	90 - 110		12/21/2017	15:48	LB92340
	Fluoride	2	2	100	0	90 - 110		12/21/2017	15:48	LB92340
	Phosphorus, Ortho	6.1	5	122	0	90 - 110		12/21/2017	15:48	LB92340
	Nitrite	2.8	3	93.3	0	90 - 110		12/21/2017	15:48	LB92340
	Nitrate	2.4	2.5	96	0	90 - 110		12/21/2017	15:48	LB92340
	Sulfate	14.4	15	96	0	90 - 110		12/21/2017	15:48	LB92340



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92340

SDG No.: LB92340

Contract:

Lab Code: CHEM

Case No.: LB92340

SAS No.: LB92340

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		12/04/2017	14:51	LB92340
	Chloride	0.075	+/-0.15	U		0.15		12/04/2017	14:51	LB92340
	Fluoride	0.043	+/-0.1	U		0.1		12/04/2017	14:51	LB92340
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/04/2017	14:51	LB92340
	Nitrite	0.022	+/-0.15	U		0.15		12/04/2017	14:51	LB92340
	Nitrate	0.027	+/-0.13	U		0.13		12/04/2017	14:51	LB92340
	Sulfate	0.13	+/-0.75	U		0.75		12/04/2017	14:51	LB92340



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92340

SDG No.: LB92340

Contract:

Lab Code: CHEM

Case No.: LB92340

SAS No.: LB92340

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		12/21/2017	11:09	LB92340
	Chloride	0.075	+/-0.15	U		0.15		12/21/2017	11:09	LB92340
	Fluoride	0.043	+/-0.1	U		0.1		12/21/2017	11:09	LB92340
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/21/2017	11:09	LB92340
	Nitrite	0.022	+/-0.15	U		0.15		12/21/2017	11:09	LB92340
	Nitrate	0.027	+/-0.13	U		0.13		12/21/2017	11:09	LB92340
	Sulfate	0.13	+/-0.75	U		0.75		12/21/2017	11:09	LB92340
CCB2	Bromide	0.066	+/-0.5	U		0.5		12/21/2017	16:19	LB92340
	Chloride	0.075	+/-0.15	U		0.15		12/21/2017	16:19	LB92340
	Fluoride	0.043	+/-0.1	U		0.1		12/21/2017	16:19	LB92340
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/21/2017	16:19	LB92340
	Nitrite	0.022	+/-0.15	U		0.15		12/21/2017	16:19	LB92340
	Nitrate	0.027	+/-0.13	U		0.13		12/21/2017	16:19	LB92340
	Sulfate	0.13	+/-0.75	U		0.75		12/21/2017	16:19	LB92340



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92340

SDG No.: LB92340

Contract: Lab Code: CHEM

Case No.: LB92340

SAS No.: LB92340

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

Client: LB92340

SDG No.: LB92340

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
LB92340BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		12/21/2017	11:40	LB92340
	Chloride	0.075	<0.15	U		0.15		12/21/2017	11:40	LB92340
	Fluoride	0.043	<0.1	U		0.1		12/21/2017	11:40	LB92340
	Phosphorus, Ortho	0.01	<0.25	U		0.25		12/21/2017	11:40	LB92340
	Nitrite	0.022	<0.15	U		0.15		12/21/2017	11:40	LB92340
	Nitrate	0.027	<0.13	U		0.13		12/21/2017	11:40	LB92340
	Sulfate	0.13	<0.75	U		0.75		12/21/2017	11:40	LB92340



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- 5a -
MATRIX SPIKE SUMMARY

client: LB92340 level: low sdg no.: LB92340
contract: lab code: CHEM case no.: LB92340 sas no.: LB92340
matrix: WATER sample id: I7011-03RE client id: MW-2-121917MS
Percent Solids for Sample: 0 Spiked ID: I7011-03MS 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	10.2		0.066	U	10	102		
Chloride	mg/L	80 - 120	213	OR	241	OR	3	-933	*	
Fluoride	mg/L	80 - 120	2.1		0.043	U	2	105		
Phosphorus, Ortho	mg/L	80 - 120	7.7		0.01	U	5	154	*	
Nitrite	mg/L	80 - 120	3		0.022	U	3	100		
Nitrate	mg/L	80 - 120	2.5		0.027	U	2.5	100		
Sulfate	mg/L	80 - 120	38.2	OR	23.9		15	95		

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DUPLICATE SAMPLE SUMMARY

Client:	<u>LB92340</u>	Level:	<u>LOW</u>	SDG No.:	<u>LB92340</u>
Contract:	<u></u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>LB92340</u>
Matrix:	<u>WATER</u>	Sample ID:	<u>I7011-03RE</u>	Client ID:	<u>MW-2-121917DUP</u>
Percent Solids for Sample:	0	Duplicate ID	I7011-03DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance	Sample	Duplicate		RPD	Qual	M
		Limit	Result	C	Result			
Bromide	mg/L	20	0.066	U	0	U		
Chloride	mg/L	20	241	OR	242	OR	0	
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	0.027	U	0	U		
Sulfate	mg/L	20	23.9		23.4		2	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92340

SDG No.: LB92340

Contract:

Lab Code: CHEM

Case No.: LB92340

SAS No.: LB92340

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB92340BSW							
Bromide	mg/L	10	9.4		94	90 - 110	
Chloride	mg/L	3	2.8		93.3	90 - 110	
Fluoride	mg/L	2	2		100	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	15		100	90 - 110	