

Daily Analysis Runlog For Sequence/QC Batch ID # LB86579

Review By

SubDirectory

Review On

Test : Anions

LB86579

STD. NAME		STD REF.#				
ICAL Standard		WP53544,WP53545,WP53546,WP53547,WP53548,WP53549,WP53550,WP53551				
ICV Standard		WP53552				
CCV Standard		WP53831				
ICSA Standard						
CRI Standard						
LCS Standard		WP53832				
Chk Standard		WP53780,WP53781				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	03/16/17 13:51		OK
2	STD2	STD2	CAL2	03/16/17 14:22		OK
3	STD3	STD3	CAL3	03/16/17 14:59		OK
4	STD4	STD4	CAL4	03/16/17 15:30		OK
5	STD5	STD5	CAL5	03/16/17 16:02		OK
6	STD6	STD6	CAL6	03/16/17 16:34		OK
7	STD7	STD7	CAL7	03/16/17 17:06		OK
8	STD8	STD8	CAL8	03/16/17 17:37		OK
9	ICV1	ICV1	ICV	03/16/17 19:13		OK
10	ICB1	ICB1	ICB	03/16/17 19:44		OK
11	CCV1	CCV1	CCV	03/28/17 09:07		OK
12	CCB1	CCB1	CCB	03/28/17 09:39		OK
13	LB86579BLW	LB86579BLW	MB	03/28/17 10:09		OK
14	LB86579BSW	LB86579BSW	LCS	03/28/17 10:40		OK
15	I2433-01	NORTHPORTALWAL	SAM	03/28/17 11:21		OK
16	I2434-01	CELL-D	SAM	03/28/17 11:52		OK
17	I2434-01DUP	CELL-DDUP	DUP	03/28/17 12:22		OK
18	I2433-01DUP	NORTHPORTALWAL	DUP	03/28/17 12:53		OK
19	I2433-01MS	NORTHPORTALWAL	MS	03/28/17 13:23		OK
20	CCV2	CCV2	CCV	03/28/17 13:54		OK
21	CCB2	CCB2	CCB	03/28/17 14:24		OK



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Report of Analysis

Client:		Date Collected:	3/27/2017 12:00:00 AM
Project:	LB86579	Date Received:	3/27/2017 12:00:00 AM
Client Sample ID:	NORTHPORTALWALL-HYDRODEMO	SDG No.:	LB86579
Lab Sample ID:	I2433-01	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		03/28/2017	300.0
	Chloride	40.9	OR	1	0.075		0.15	mg/L		03/28/2017	300.0
	Fluoride	0.82		1	0.043		0.1	mg/L		03/28/2017	300.0
	Nitrate	0.93		1	0.027		0.13	mg/L		03/28/2017	300.0
	Nitrite	0.44		1	0.022		0.15	mg/L		03/28/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		03/28/2017	300.0
	Sulfate	36.4		1	0.13		0.75	mg/L		03/28/2017	300.0



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Report of Analysis

Client:		Date Collected:	3/27/2017 12:00:00 AM
Project:	LB86579	Date Received:	3/28/2017 12:00:00 AM
Client Sample ID:	CELL-D	SDG No.:	LB86579
Lab Sample ID:	I2434-01	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		03/28/2017	300.0
	Chloride	0.39		1	0.075		0.15	mg/L		03/28/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		03/28/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		03/28/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		03/28/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		03/28/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		03/28/2017	300.0



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Report of Analysis

Client:		Date Collected:	3/27/2017 12:00:00 AM
Project:	LB86579	Date Received:	3/28/2017 12:00:00 AM
Client Sample ID:	CELL-D	SDG No.:	LB86579
Lab Sample ID:	I2434-01	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



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86579

SDG No.: LB86579

Contract: _____ Lab Code: CHEM

Case No.: LB86579

SAS No.: LB86579

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	24	25	96	0	90 - 110		03/16/2017	19:13	LB86579
	Chloride	7.1	7.5	94.7	0	90 - 110		03/16/2017	19:13	LB86579
	Fluoride	4.9	5	98	0	90 - 110		03/16/2017	19:13	LB86579
	Phosphorus, Ortho	12.5	12.5	100	0	90 - 110		03/16/2017	19:13	LB86579
	Nitrite	7.4	7.5	98.7	0	90 - 110		03/16/2017	19:13	LB86579
	Nitrate	6	6.25	96	0	90 - 110		03/16/2017	19:13	LB86579
	Sulfate	35.2	37.5	93.9	0	90 - 110		03/16/2017	19:13	LB86579



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86579

SDG No.: LB86579

Contract: _____ Lab Code: CHEM

Case No.: LB86579

SAS No.: LB86579

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	24.2	25	96.8	0	90 - 110		03/28/2017	09:07	LB86579
	Chloride	7.3	7.5	97.3	0	90 - 110		03/28/2017	09:07	LB86579
	Fluoride	5.2	5	104	0	90 - 110		03/28/2017	09:07	LB86579
	Phosphorus, Ortho	13.7	12.5	109.6	0	90 - 110		03/28/2017	09:07	LB86579
	Nitrite	7.4	7.5	98.7	0	90 - 110		03/28/2017	09:07	LB86579
	Nitrate	6.1	6.25	97.6	0	90 - 110		03/28/2017	09:07	LB86579
	Sulfate	36.1	37.5	96.3	0	90 - 110		03/28/2017	09:07	LB86579
CCV2	Bromide	24	25	96	0	90 - 110		03/28/2017	13:54	LB86579
	Chloride	7.2	7.5	96	0	90 - 110		03/28/2017	13:54	LB86579
	Fluoride	5.3	5	106	0	90 - 110		03/28/2017	13:54	LB86579
	Phosphorus, Ortho	13.7	12.5	109.6	0	90 - 110		03/28/2017	13:54	LB86579
	Nitrite	7.4	7.5	98.7	0	90 - 110		03/28/2017	13:54	LB86579
	Nitrate	6	6.25	96	0	90 - 110		03/28/2017	13:54	LB86579
	Sulfate	35.5	37.5	94.7	0	90 - 110		03/28/2017	13:54	LB86579



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86579

SDG No.: LB86579

Contract:

Lab Code: CHEM

Case No.: LB86579

SAS No.: LB86579

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		03/16/2017	19:44	LB86579
	Chloride	0.075	+/-0.15	U		0.15		03/16/2017	19:44	LB86579
	Fluoride	0.043	+/-0.1	U		0.1		03/16/2017	19:44	LB86579
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/16/2017	19:44	LB86579
	Nitrite	0.022	+/-0.15	U		0.15		03/16/2017	19:44	LB86579
	Nitrate	0.027	+/-0.13	U		0.13		03/16/2017	19:44	LB86579
	Sulfate	0.13	+/-0.75	U		0.75		03/16/2017	19:44	LB86579



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86579

SDG No.: LB86579

Contract:

Lab Code: CHEM

Case No.: LB86579

SAS No.: LB86579

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		03/28/2017	09:39	LB86579
	Chloride	0.075	+/-0.15	U		0.15		03/28/2017	09:39	LB86579
	Fluoride	0.043	+/-0.1	U		0.1		03/28/2017	09:39	LB86579
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/28/2017	09:39	LB86579
	Nitrite	0.022	+/-0.15	U		0.15		03/28/2017	09:39	LB86579
	Nitrate	0.027	+/-0.13	U		0.13		03/28/2017	09:39	LB86579
	Sulfate	0.13	+/-0.75	U		0.75		03/28/2017	09:39	LB86579
CCB2	Bromide	0.066	+/-0.5	U		0.5		03/28/2017	14:24	LB86579
	Chloride	0.075	+/-0.15	U		0.15		03/28/2017	14:24	LB86579
	Fluoride	0.043	+/-0.1	U		0.1		03/28/2017	14:24	LB86579
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/28/2017	14:24	LB86579
	Nitrite	0.022	+/-0.15	U		0.15		03/28/2017	14:24	LB86579
	Nitrate	0.027	+/-0.13	U		0.13		03/28/2017	14:24	LB86579
	Sulfate	0.13	+/-0.75	U		0.75		03/28/2017	14:24	LB86579



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86579

SDG No.: LB86579

Contract: Lab Code: CHEM

Case No.: LB86579

SAS No.: LB86579

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: LB86579

SDG No.: LB86579

Instrument: IC Metrohm

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB86579BLW		WATER		Batch Number:			Prep Date:			
	Bromide	0.066	<0.5	U		0.5		03/28/2017	10:09	LB86579
	Chloride	0.075	<0.15	U		0.15		03/28/2017	10:09	LB86579
	Fluoride	0.043	<0.1	U		0.1		03/28/2017	10:09	LB86579
	Phosphorus, Ortho	0.01	<0.25	U		0.25		03/28/2017	10:09	LB86579
	Nitrite	0.022	<0.15	U		0.15		03/28/2017	10:09	LB86579
	Nitrate	0.027	<0.13	U		0.13		03/28/2017	10:09	LB86579
	Sulfate	0.13	<0.75	U		0.75		03/28/2017	10:09	LB86579



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- 5a -
MATRIX SPIKE SUMMARY

client: LB86579 level: low sdg no.: LB86579
contract: lab code: CHEM case no.: LB86579 sas no.: LB86579
matrix: WATER sample id: I2433-01 client id: NORTHPORTALWALL-HYDRODEMOMS
Percent Solids for Sample: 0 Spiked ID: I2433-01MS 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	24.7		0.066	U	25	98.8		
Chloride	mg/L	80 - 120	39.3	OR	40.9	OR	7.5	-21	*	
Fluoride	mg/L	80 - 120	4.8		0.82		5	80		
Phosphorus, Ortho	mg/L	80 - 120	11		0.01	U	12.5	88		
Nitrite	mg/L	80 - 120	7.8		0.44		7.5	98		
Nitrate	mg/L	80 - 120	6.8		0.93		6.25	94		
Sulfate	mg/L	80 - 120	69		36.4		37.5	87		

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB86579 **Level:** LOW **SDG No.:** LB86579
Contract: _____ **Lab Code:** CHEM **Case No.:** LB86579 **SAS No.:** LB86579
Matrix: WATER **Sample ID:** I2433-01 **Client ID:** NORTHPORTALWALL-HYDRODEMOPUP
Percent Solids for Sample: 0 **Duplicate ID** I2433-01DUP **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	40.9	OR	40.8	OR	0		
Fluoride	mg/L	20	0.82		0.81		1		
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.44		0.44		0		
Nitrate	mg/L	20	0.93		0.92		1		
Sulfate	mg/L	20	36.4		36.3		0		

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB86579 **Level:** LOW **SDG No.:** LB86579
Contract: _____ **Lab Code:** CHEM **Case No.:** LB86579 **SAS No.:** LB86579
Matrix: WATER **Sample ID:** I2434-01 **Client ID:** CELL-DDUP
Percent Solids for Sample: 0 **Duplicate ID** I2434-01DUP **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	0.39		0.4		3		
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	0.13	U	0	U			



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- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86579

SDG No.: LB86579

Contract:

Lab Code: CHEM

Case No.: LB86579

SAS No.: LB86579

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB86579BSW							
Bromide	mg/L	25	23.6		94.4	90 - 110	
Chloride	mg/L	7.5	7.1		94.7	90 - 110	
Fluoride	mg/L	5	5.1		102	90 - 110	
Phosphorus, Ortho	mg/L	12.5	13.5		108	90 - 110	
Nitrite	mg/L	7.5	7.2		96	90 - 110	
Nitrate	mg/L	6.25	5.9		94.4	90 - 110	
Sulfate	mg/L	37.5	35		93.3	90 - 110	