

Daily Analysis Runlog For Sequence/QC Batch ID # LB89261

Review By

Review On

SubDirectory

LB89261

Test :

Anions

STD. NAME		STD REF.#				
ICAL Standard		WP56314,WP56315,WP56316,WP56317,WP56319,WP56321,WP56322				
ICV Standard		WP56311				
CCV Standard		WP56945				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP56946				
Chk Standard		WP56329,WP56313				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	07/11/17 11:30		OK
2	STD2	STD2	CAL2	07/11/17 12:01		OK
3	STD3	STD3	CAL3	07/11/17 12:32		OK
4	STD4	STD4	CAL4	07/11/17 13:03		OK
5	STD5	STD5	CAL5	07/11/17 13:34		OK
6	STD6	STD6	CAL6	07/11/17 14:05		OK
7	STD7	STD7	CAL7	07/11/17 14:36		OK
8	ICV1	ICV1	ICV	07/11/17 16:11		OK
9	ICB1	ICB1	ICB	07/11/17 16:42		OK
10	CCV1	CCV1	CCV	08/04/17 12:45		OK
11	CCB1	CCB1	CCB	08/04/17 13:16		OK
12	LB89261BLW	LB89261BLW	MB	08/04/17 13:47		OK
13	LB89261BSW	LB89261BSW	LCS	08/04/17 14:18		OK
14	I4047-01	MDL-WATER-1	SAM	08/04/17 14:49		OK
15	I4047-02	MDL-WATER-2	SAM	08/04/17 15:20		OK
16	I4047-03	MDL-WATER-3	SAM	08/04/17 15:51		OK
17	I4047-04	MDL-WATER-4	SAM	08/04/17 16:22		OK
18	I4047-05	MDL-WATER-5	SAM	08/04/17 16:53		OK
19	I4047-06	MDL-WATER-6	SAM	08/04/17 17:24		OK
20	I4047-07	MDL-WATER-7	SAM	08/04/17 17:55		OK
21	I4047-07	MDL-WATER-7	SAM	08/04/17 18:26		OK



Instrument ID : IC-2

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Daily Analysis Runlog For Sequence/QC Batch ID # LB89261

Review By		Review On				
SubDirectory		LB89261		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP56314,WP56315,WP56316,WP56317,WP56319,WP56321,WP56322				
ICV Standard		WP56311				
CCV Standard		WP56945				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP56946				
Chk Standard		WP56329,WP56313				
22	CCV2	CCV2	CCV	08/04/17 18:57		OK
23	CCB2	CCB2	CCB	08/04/17 19:28		OK



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	7/3/2017 12:00:00 AM
Project:	LB89261	Date Received:	7/3/2017 12:00:00 AM
Client Sample ID:	MDL-WATER-1	SDG No.:	LB89261
Lab Sample ID:	I4047-01	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	0.34	J	1	0.066		0.5	mg/L		08/04/2017	300.0
	Chloride	0.16		1	0.075		0.15	mg/L		08/04/2017	300.0
	Fluoride	0.059	J	1	0.043		0.1	mg/L		08/04/2017	300.0
	Nitrate	0.11	J	1	0.027		0.13	mg/L		08/04/2017	300.0
	Nitrite	0.14	J	1	0.022		0.15	mg/L		08/04/2017	300.0
	Phosphorus, Ortho	-0.1	U	1	0.01		0.25	mg/L		08/04/2017	300.0
	Sulfate	0.81		1	0.13		0.75	mg/L		08/04/2017	300.0



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Report of Analysis

Client:		Date Collected:	7/3/2017 12:00:00 AM
Project:	LB89261	Date Received:	7/3/2017 12:00:00 AM
Client Sample ID:	MDL-WATER-2	SDG No.:	LB89261
Lab Sample ID:	I4047-02	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	0.34	J	1	0.066		0.5	mg/L		08/04/2017	300.0
	Chloride	0.16		1	0.075		0.15	mg/L		08/04/2017	300.0
	Fluoride	0.059	J	1	0.043		0.1	mg/L		08/04/2017	300.0
	Nitrate	0.11	J	1	0.027		0.13	mg/L		08/04/2017	300.0
	Nitrite	0.14	J	1	0.022		0.15	mg/L		08/04/2017	300.0
	Phosphorus, Ortho	-0.098	U	1	0.01		0.25	mg/L		08/04/2017	300.0
	Sulfate	0.81		1	0.13		0.75	mg/L		08/04/2017	300.0



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Report of Analysis

Client:		Date Collected:	7/3/2017 12:00:00 AM
Project:	LB89261	Date Received:	7/3/2017 12:00:00 AM
Client Sample ID:	MDL-WATER-3	SDG No.:	LB89261
Lab Sample ID:	I4047-03	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	0.34	J	1	0.066		0.5	mg/L		08/04/2017	300.0
	Chloride	0.16		1	0.075		0.15	mg/L		08/04/2017	300.0
	Fluoride	0.059	J	1	0.043		0.1	mg/L		08/04/2017	300.0
	Nitrate	0.11	J	1	0.027		0.13	mg/L		08/04/2017	300.0
	Nitrite	0.14	J	1	0.022		0.15	mg/L		08/04/2017	300.0
	Phosphorus, Ortho	-0.1	U	1	0.01		0.25	mg/L		08/04/2017	300.0
	Sulfate	0.82		1	0.13		0.75	mg/L		08/04/2017	300.0



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Report of Analysis

Client:		Date Collected:	7/3/2017 12:00:00 AM
Project:	LB89261	Date Received:	7/3/2017 12:00:00 AM
Client Sample ID:	MDL-WATER-4	SDG No.:	LB89261
Lab Sample ID:	I4047-04	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	0.34	J	1	0.066		0.5	mg/L		08/04/2017	300.0
	Chloride	0.16		1	0.075		0.15	mg/L		08/04/2017	300.0
	Fluoride	0.059	J	1	0.043		0.1	mg/L		08/04/2017	300.0
	Nitrate	0.11	J	1	0.027		0.13	mg/L		08/04/2017	300.0
	Nitrite	0.14	J	1	0.022		0.15	mg/L		08/04/2017	300.0
	Phosphorus, Ortho	-0.11	U	1	0.01		0.25	mg/L		08/04/2017	300.0
	Sulfate	0.81		1	0.13		0.75	mg/L		08/04/2017	300.0



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Report of Analysis

Client:		Date Collected:	7/3/2017 12:00:00 AM
Project:	LB89261	Date Received:	7/3/2017 12:00:00 AM
Client Sample ID:	MDL-WATER-5	SDG No.:	LB89261
Lab Sample ID:	I4047-05	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	0.34	J	1	0.066		0.5	mg/L		08/04/2017	300.0
	Chloride	0.16		1	0.075		0.15	mg/L		08/04/2017	300.0
	Fluoride	0.059	J	1	0.043		0.1	mg/L		08/04/2017	300.0
	Nitrate	0.11	J	1	0.027		0.13	mg/L		08/04/2017	300.0
	Nitrite	0.14	J	1	0.022		0.15	mg/L		08/04/2017	300.0
	Phosphorus, Ortho	-0.12	U	1	0.01		0.25	mg/L		08/04/2017	300.0
	Sulfate	0.81		1	0.13		0.75	mg/L		08/04/2017	300.0



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Report of Analysis

Client:		Date Collected:	7/3/2017 12:00:00 AM
Project:	LB89261	Date Received:	7/3/2017 12:00:00 AM
Client Sample ID:	MDL-WATER-6	SDG No.:	LB89261
Lab Sample ID:	I4047-06	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	0.34	J	1	0.066		0.5	mg/L		08/04/2017	300.0
	Chloride	0.16		1	0.075		0.15	mg/L		08/04/2017	300.0
	Fluoride	0.059	J	1	0.043		0.1	mg/L		08/04/2017	300.0
	Nitrate	0.11	J	1	0.027		0.13	mg/L		08/04/2017	300.0
	Nitrite	0.14	J	1	0.022		0.15	mg/L		08/04/2017	300.0
	Phosphorus, Ortho	-0.12	U	1	0.01		0.25	mg/L		08/04/2017	300.0
	Sulfate	0.82		1	0.13		0.75	mg/L		08/04/2017	300.0

**Report of Analysis**

Client:		Date Collected:	7/3/2017 12:00:00 AM
Project:	LB89261	Date Received:	7/3/2017 12:00:00 AM
Client Sample ID:	MDL-WATER-7	SDG No.:	LB89261
Lab Sample ID:	I4047-07	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	0.34	J	1	0.066		0.5	mg/L		08/04/2017	300.0
	Bromide	0.34	J	1	0.066		0.5	mg/L		08/04/2017	300.0
	Bromide	0.34	J	1	0.066		0.5	mg/L		08/04/2017	300.0
	Bromide	0.34	J	1	0.066		0.5	mg/L		08/04/2017	300.0
	Chloride	0.16		1	0.075		0.15	mg/L		08/04/2017	300.0
	Chloride	0.16		1	0.075		0.15	mg/L		08/04/2017	300.0
	Fluoride	0.059	J	1	0.043		0.1	mg/L		08/04/2017	300.0
	Fluoride	0.059	J	1	0.043		0.1	mg/L		08/04/2017	300.0
	Nitrate	0.11	J	1	0.027		0.13	mg/L		08/04/2017	300.0
	Nitrate	0.11	J	1	0.027		0.13	mg/L		08/04/2017	300.0
	Nitrite	0.14	J	1	0.022		0.15	mg/L		08/04/2017	300.0
	Nitrite	0.14	J	1	0.022		0.15	mg/L		08/04/2017	300.0
	Phosphorus, Ortho	-0.11	U	1	0.01		0.25	mg/L		08/04/2017	300.0
	Phosphorus, Ortho	-0.11	U	1	0.01		0.25	mg/L		08/04/2017	300.0
	Phosphorus, Ortho	-0.11	U	1	0.01		0.25	mg/L		08/04/2017	300.0
	Phosphorus, Ortho	-0.11	U	1	0.01		0.25	mg/L		08/04/2017	300.0
	Sulfate	0.82		1	0.13		0.75	mg/L		08/04/2017	300.0
	Sulfate	0.82		1	0.13		0.75	mg/L		08/04/2017	300.0



Report of Analysis

Client:		Date Collected:	7/3/2017 12:00:00 AM
Project:	LB89261	Date Received:	7/3/2017 12:00:00 AM
Client Sample ID:	MDL-WATER-7	SDG No.:	LB89261
Lab Sample ID:	I4047-07	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB89261

SDG No.: LB89261

Contract: _____ Lab Code: CHEM

Case No.: LB89261

SAS No.: LB89261

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		07/11/2017	16:11	LB89261
	Chloride	2.9	3	96.7	0	90 - 110		07/11/2017	16:11	LB89261
	Fluoride	2	2	100	0	90 - 110		07/11/2017	16:11	LB89261
	Phosphorus, Ortho	5.2	5	104	0	90 - 110		07/11/2017	16:11	LB89261
	Nitrite	2.9	3	96.7	0	90 - 110		07/11/2017	16:11	LB89261
	Nitrate	2.4	2.5	96	0	90 - 110		07/11/2017	16:11	LB89261
	Sulfate	14.5	15	96.7	0	90 - 110		07/11/2017	16:11	LB89261



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89261

SDG No.: LB89261

Contract: _____ Lab Code: CHEM

Case No.: LB89261

SAS No.: LB89261

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	9.7	10	97	0	90 - 110		08/04/2017	12:45	LB89261
	Chloride	2.9	3	96.7	0	90 - 110		08/04/2017	12:45	LB89261
	Fluoride	2	2	100	0	90 - 110		08/04/2017	12:45	LB89261
	Phosphorus, Ortho	5.4	5	108	0	90 - 110		08/04/2017	12:45	LB89261
	Nitrite	2.9	3	96.7	0	90 - 110		08/04/2017	12:45	LB89261
	Nitrate	2.5	2.5	100	0	90 - 110		08/04/2017	12:45	LB89261
	Sulfate	14.8	15	98.7	0	90 - 110		08/04/2017	12:45	LB89261
CCV2	Bromide	9.9	10	99	0	90 - 110		08/04/2017	18:57	LB89261
	Chloride	3	3	100	0	90 - 110		08/04/2017	18:57	LB89261
	Fluoride	2	2	100	0	90 - 110		08/04/2017	18:57	LB89261
	Phosphorus, Ortho	5.4	5	108	0	90 - 110		08/04/2017	18:57	LB89261
	Nitrite	3	3	100	0	90 - 110		08/04/2017	18:57	LB89261
	Nitrate	2.6	2.5	104	0	90 - 110		08/04/2017	18:57	LB89261
	Sulfate	14.9	15	99.3	0	90 - 110		08/04/2017	18:57	LB89261



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89261

SDG No.: LB89261

Contract: Lab Code: CHEM

Case No.: LB89261

SAS No.: LB89261

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		07/11/2017	16:42	LB89261
	Chloride	0.075	+/-0.15	U		0.15		07/11/2017	16:42	LB89261
	Fluoride	0.043	+/-0.1	U		0.1		07/11/2017	16:42	LB89261
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		07/11/2017	16:42	LB89261
	Nitrite	0.022	+/-0.15	U		0.15		07/11/2017	16:42	LB89261
	Nitrate	0.027	+/-0.13	U		0.13		07/11/2017	16:42	LB89261
	Sulfate	0.13	+/-0.75	U		0.75		07/11/2017	16:42	LB89261

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		08/04/2017	13:16	LB89261
	Chloride	0.075	+/-0.15	U		0.15		08/04/2017	13:16	LB89261
	Fluoride	0.043	+/-0.1	U		0.1		08/04/2017	13:16	LB89261
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		08/04/2017	13:16	LB89261
	Nitrite	0.022	+/-0.15	U		0.15		08/04/2017	13:16	LB89261
	Nitrate	0.027	+/-0.13	U		0.13		08/04/2017	13:16	LB89261
	Sulfate	0.13	+/-0.75	U		0.75		08/04/2017	13:16	LB89261
CCB2	Bromide	0.066	+/-0.5	U		0.5		08/04/2017	19:28	LB89261
	Chloride	0.075	+/-0.15	U		0.15		08/04/2017	19:28	LB89261
	Fluoride	0.043	+/-0.1	U		0.1		08/04/2017	19:28	LB89261
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		08/04/2017	19:28	LB89261
	Nitrite	0.022	+/-0.15	U		0.15		08/04/2017	19:28	LB89261
	Nitrate	0.027	+/-0.13	U		0.13		08/04/2017	19:28	LB89261
	Sulfate	0.13	+/-0.75	U		0.75		08/04/2017	19:28	LB89261



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB89261

SDG No.:

LB89261

Contract:

Lab Code:

CHEM

Case No.:

LB89261

SAS No.:

LB89261

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: LB89261

SDG No.: LB89261

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
LB89261BLW		WATER		Batch Number:			Prep Date:			
	Bromide	0.066	<0.5	U		0.5		08/04/2017	13:47	LB89261
	Chloride	0.075	<0.15	U		0.15		08/04/2017	13:47	LB89261
	Fluoride	0.043	<0.1	U		0.1		08/04/2017	13:47	LB89261
	Phosphorus, Ortho	0.01	<0.25	U		0.25		08/04/2017	13:47	LB89261
	Nitrite	0.022	<0.15	U		0.15		08/04/2017	13:47	LB89261
	Nitrate	0.027	<0.13	U		0.13		08/04/2017	13:47	LB89261
	Sulfate	0.13	<0.75	U		0.75		08/04/2017	13:47	LB89261



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89261

SDG No.: LB89261

Contract:

Lab Code: CHEM

Case No.: LB89261

SAS No.: LB89261

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB89261BSW							
Bromide	mg/L	10	9.7		97	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Fluoride	mg/L	2	2		100	90 - 110	
Phosphorus, Ortho	mg/L	5	5.5		110	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	
Nitrate	mg/L	2.5	2.4		96	90 - 110	
Sulfate	mg/L	15	14.6		97.3	90 - 110	