

Daily Analysis Runlog For Sequence/QC Batch ID # LB87387

Review By

Review On

SubDirectory

LB87387

Test :

Anions

STD. NAME		STD REF.#				
ICAL Standard		WP54202,WP54203,WP54204,WP54205,WP54206,WP54207,WP54208				
ICV Standard		WP54209				
CCV Standard		WP54824				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54825				
Chk Standard		WP54734,WP54761				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	04/14/17 13:33		OK
2	STD2	STD2	CAL2	04/14/17 14:04		OK
3	STD3	STD3	CAL3	04/14/17 14:34		OK
4	STD4	STD4	CAL4	04/14/17 15:05		OK
5	STD5	STD5	CAL5	04/14/17 15:36		OK
6	STD6	STD6	CAL6	04/14/17 16:07		OK
7	STD7	STD7	CAL7	04/14/17 16:38		OK
8	ICV1	ICV1	ICV	04/14/17 18:12		OK
9	ICB1	ICB1	ICB	04/14/17 18:43		OK
10	CCV1	CCV1	CCV	05/09/17 09:20		OK
11	CCB1	CCB1	CCB	05/09/17 09:59		OK
12	LB87387BLW	LB87387BLW	MB	05/09/17 10:29		OK
13	LB87387BSW	LB87387BSW	LCS	05/09/17 10:59		OK
14	I3046-01	TWP-13	SAM	05/09/17 11:29		OK
15	I3046-02	TWP-11	SAM	05/09/17 11:59		OK
16	I3046-02DUP	TWP-11DUP	DUP	05/09/17 12:29		OK
17	I3046-02MS	TWP-11MS	MS	05/09/17 12:59		OK
18	CCV2	CCV2	CCV	05/09/17 13:29		OK
19	CCB2	CCB2	CCB	05/09/17 13:58		OK
20	I3062-15	TWP-02	SAM	05/09/17 17:40		OK
21	CCV3	CCV3	CCV	05/09/17 18:09		OK



Instrument ID : IC-1

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

Daily Analysis Runlog For Sequence/QC Batch ID # LB87387

Review By		Review On				
SubDirectory		Test : Anions				
LB87387						
STD. NAME	STD REF.#					
ICAL Standard	WP54202,WP54203,WP54204,WP54205,WP54206,WP54207,WP54208					
ICV Standard	WP54209					
CCV Standard	WP54824					
ICSA Standard	N/A					
CRI Standard	N/A					
LCS Standard	WP54825					
Chk Standard	WP54734,WP54761					
22	CCB3	CCB3	CCB	05/09/17 18:39		OK



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Report of Analysis

Client:		Date Collected:	5/8/2017 12:00:00 AM
Project:	LB87387	Date Received:	5/8/2017 12:00:00 AM
Client Sample ID:	TWP-13	SDG No.:	LB87387
Lab Sample ID:	I3046-01	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		05/09/2017	300.0
	Chloride	59.5	OR	1	0.075		0.15	mg/L		05/09/2017	300.0
	Fluoride	0.17		1	0.043		0.1	mg/L		05/09/2017	300.0
	Nitrate	0.56		1	0.027		0.13	mg/L		05/09/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		05/09/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		05/09/2017	300.0
	Sulfate	84.2	OR	1	0.13		0.75	mg/L		05/09/2017	300.0

Report of Analysis

Client:		Date Collected:	5/8/2017 12:00:00 AM
Project:	LB87387	Date Received:	5/8/2017 12:00:00 AM
Client Sample ID:	TWP-11	SDG No.:	LB87387
Lab Sample ID:	I3046-02	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	U	1	0.066		0.5	mg/L		05/09/2017	300.0
	Chloride	305	OR	1	0.075		0.15	mg/L		05/09/2017	300.0
	Fluoride	0.53		1	0.043		0.1	mg/L		05/09/2017	300.0
	Nitrate	1.1		1	0.027		0.13	mg/L		05/09/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		05/09/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		05/09/2017	300.0
	Sulfate	91.4	OR	1	0.13		0.75	mg/L		05/09/2017	300.0



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87387	Date Received:	5/9/2017 12:00:00 AM
Client Sample ID:	TWP-02	SDG No.:	LB87387
Lab Sample ID:	I3062-15	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	7.8		1	0.066		0.5	mg/L		05/09/2017	300.0
	Chloride	8600	OR	1	0.075		0.15	mg/L		05/09/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		05/09/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		05/09/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		05/09/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		05/09/2017	300.0
	Sulfate	522	OR	1	0.13		0.75	mg/L		05/09/2017	300.0



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87387	Date Received:	5/9/2017 12:00:00 AM
Client Sample ID:	TWP-02	SDG No.:	LB87387
Lab Sample ID:	I3062-15	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: LB87387

SDG No.: LB87387

Contract: _____ Lab Code: CHEM

Case No.: LB87387

SAS No.: LB87387

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	9.8	10	98	0	90 - 110		04/14/2017	18:12	LB87387
	Chloride	3.1	3	103.3	0	90 - 110		04/14/2017	18:12	LB87387
	Fluoride	2.1	2	105	0	90 - 110		04/14/2017	18:12	LB87387
	Phosphorus, Ortho	5.5	5	110	0	90 - 110		04/14/2017	18:12	LB87387
	Nitrite	3.1	3	103.3	0	90 - 110		04/14/2017	18:12	LB87387
	Nitrate	2.4	2.5	96	0	90 - 110		04/14/2017	18:12	LB87387
	Sulfate	14.5	15	96.7	0	90 - 110		04/14/2017	18:12	LB87387



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87387

SDG No.: LB87387

Contract: _____ Lab Code: CHEM

Case No.: LB87387

SAS No.: LB87387

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	10.6	10	106	0	90 - 110		05/09/2017	09:20	LB87387
	Chloride	3	3	100	0	90 - 110		05/09/2017	09:20	LB87387
	Fluoride	2	2	100	0	90 - 110		05/09/2017	09:20	LB87387
	Phosphorus, Ortho	4.6	5	92	0	90 - 110		05/09/2017	09:20	LB87387
	Nitrite	3.2	3	106.7	0	90 - 110		05/09/2017	09:20	LB87387
	Nitrate	2.4	2.5	96	0	90 - 110		05/09/2017	09:20	LB87387
	Sulfate	14.1	15	94	0	90 - 110		05/09/2017	09:20	LB87387
CCV2	Bromide	10.9	10	109	0	90 - 110		05/09/2017	13:29	LB87387
	Chloride	3.1	3	103.3	0	90 - 110		05/09/2017	13:29	LB87387
	Fluoride	1.9	2	95	0	90 - 110		05/09/2017	13:29	LB87387
	Phosphorus, Ortho	5.2	5	104	0	90 - 110		05/09/2017	13:29	LB87387
	Nitrite	3.1	3	103.3	0	90 - 110		05/09/2017	13:29	LB87387
	Nitrate	2.5	2.5	100	0	90 - 110		05/09/2017	13:29	LB87387
	Sulfate	14.7	15	98	0	90 - 110		05/09/2017	13:29	LB87387
CCV3	Bromide	10.6	10	106	0	90 - 110		05/09/2017	18:09	LB87387
	Chloride	3.1	3	103.3	0	90 - 110		05/09/2017	18:09	LB87387
	Fluoride	3.4	2	170	0	90 - 110		05/09/2017	18:09	LB87387
	Phosphorus, Ortho	4.7	5	94	0	90 - 110		05/09/2017	18:09	LB87387
	Nitrite	3.1	3	103.3	0	90 - 110		05/09/2017	18:09	LB87387
	Nitrate	2.4	2.5	96	0	90 - 110		05/09/2017	18:09	LB87387
	Sulfate	14.6	15	97.3	0	90 - 110		05/09/2017	18:09	LB87387



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87387

SDG No.: LB87387

Contract: Lab Code: CHEM

Case No.: LB87387

SAS No.: LB87387

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		04/14/2017	18:43	LB87387
	Chloride	0.075	+/-0.15	U		0.15		04/14/2017	18:43	LB87387
	Fluoride	0.043	+/-0.1	U		0.1		04/14/2017	18:43	LB87387
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/14/2017	18:43	LB87387
	Nitrite	0.022	+/-0.15	U		0.15		04/14/2017	18:43	LB87387
	Nitrate	0.027	+/-0.13	U		0.13		04/14/2017	18:43	LB87387
	Sulfate	0.13	+/-0.75	U		0.75		04/14/2017	18:43	LB87387



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87387

SDG No.: LB87387

Contract:

Lab Code: CHEM

Case No.: LB87387

SAS No.: LB87387

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		05/09/2017	09:59	LB87387
	Chloride	0.075	+/-0.15	U		0.15		05/09/2017	09:59	LB87387
	Fluoride	0.043	+/-0.1	U		0.1		05/09/2017	09:59	LB87387
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		05/09/2017	09:59	LB87387
	Nitrite	0.022	+/-0.15	U		0.15		05/09/2017	09:59	LB87387
	Nitrate	0.027	+/-0.13	U		0.13		05/09/2017	09:59	LB87387
	Sulfate	0.13	+/-0.75	U		0.75		05/09/2017	09:59	LB87387
CCB2	Bromide	0.066	+/-0.5	U		0.5		05/09/2017	13:58	LB87387
	Chloride	0.075	+/-0.15	U		0.15		05/09/2017	13:58	LB87387
	Fluoride	0.043	+/-0.1	U		0.1		05/09/2017	13:58	LB87387
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		05/09/2017	13:58	LB87387
	Nitrite	0.022	+/-0.15	U		0.15		05/09/2017	13:58	LB87387
	Nitrate	0.027	+/-0.13	U		0.13		05/09/2017	13:58	LB87387
	Sulfate	0.13	+/-0.75	U		0.75		05/09/2017	13:58	LB87387
CCB3	Bromide	0.066	+/-0.5	U		0.5		05/09/2017	18:39	LB87387
	Chloride	0.075	+/-0.15	U		0.15		05/09/2017	18:39	LB87387
	Fluoride	0.043	+/-0.1	U		0.1		05/09/2017	18:39	LB87387
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		05/09/2017	18:39	LB87387
	Nitrite	0.022	+/-0.15	U		0.15		05/09/2017	18:39	LB87387
	Nitrate	0.027	+/-0.13	U		0.13		05/09/2017	18:39	LB87387
	Sulfate	0.13	+/-0.75	U		0.75		05/09/2017	18:39	LB87387



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87387

SDG No.: LB87387

Contract: Lab Code: CHEM

Case No.: LB87387

SAS No.: LB87387

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: LB87387

SDG No.: LB87387

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
LB87387BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		05/09/2017	10:29	LB87387
	Chloride	0.075	<0.15	U		0.15		05/09/2017	10:29	LB87387
	Fluoride	0.043	<0.1	U		0.1		05/09/2017	10:29	LB87387
	Phosphorus, Ortho	0.01	<0.25	U		0.25		05/09/2017	10:29	LB87387
	Nitrite	0.022	<0.15	U		0.15		05/09/2017	10:29	LB87387
	Nitrate	0.027	<0.13	U		0.13		05/09/2017	10:29	LB87387
	Sulfate	0.13	<0.75	U		0.75		05/09/2017	10:29	LB87387



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- 5a -
MATRIX SPIKE SUMMARY

client: LB87387 level: low sdg no.: LB87387
contract: lab code: CHEM case no.: LB87387 sas no.: LB87387
matrix: WATER sample id: I3046-02 client id: TWP-11MS
Percent Solids for Sample: 0 Spiked ID: I3046-02MS 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	11.9		0.066	U	10	119		
Chloride	mg/L	80 - 120	273	OR	305	OR	3	-1067	*	
Fluoride	mg/L	80 - 120	2.5		0.53		2	99		
Phosphorus, Ortho	mg/L	80 - 120	6.5		0.01	U	5	130	*	
Nitrite	mg/L	80 - 120	2.9		0.022	U	3	96.7		
Nitrate	mg/L	80 - 120	3.4		1.1		2.5	92		
Sulfate	mg/L	80 - 120	99.6	OR	91.4	OR	15	55	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB87387 **Level:** LOW **SDG No.:** LB87387
Contract: _____ **Lab Code:** CHEM **Case No.:** LB87387 **SAS No.:** LB87387
Matrix: WATER **Sample ID:** I3046-02 **Client ID:** TWP-11DUP
Percent Solids for Sample: 0 **Duplicate ID** I3046-02DUP **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	305	OR	312	OR	2		
Fluoride	mg/L	20	0.53		0.54		2		
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.022	U	0	U			
Nitrate	mg/L	20	1.1		1.1		0		
Sulfate	mg/L	20	91.4	OR	92.7	OR	1		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87387

SDG No.: LB87387

Contract:

Lab Code: CHEM

Case No.: LB87387

SAS No.: LB87387

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB87387BSW							
Bromide	mg/L	10	10.6		106	90 - 110	
Chloride	mg/L	3	3		100	90 - 110	
Fluoride	mg/L	2	1.9		95	90 - 110	
Phosphorus, Ortho	mg/L	5	5		100	90 - 110	
Nitrite	mg/L	3	3.1		103.3	90 - 110	
Nitrate	mg/L	2.5	2.4		96	90 - 110	
Sulfate	mg/L	15	14.3		95.3	90 - 110	
