

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	TOC	10.4	10	104	0	90 - 110		04/20/2017	21:48	LB87414



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87414

SDG No.: LB87414

Contract: _____ Lab Code: CHEM

Case No.: LB87414

SAS No.: LB87414

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	TOC	9.6	10	96	0	90 - 110		05/12/2017	09:21	LB87414
CCV2	TOC	9.3	10	93	0	90 - 110		05/12/2017	13:19	LB87414
CCV3	TOC	10	10	100	0	90 - 110		05/12/2017	15:06	LB87414



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87414 **SDG No.:** LB87414
Contract: **Lab Code:** CHEM **Case No.:** LB87414 **SAS No.:** LB87414

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	TOC	0.18	+/-0.5	J		0.5		04/20/2017	22:01	LB87414



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87414

SDG No.: LB87414

Contract:

Lab Code: CHEM

Case No.: LB87414

SAS No.: LB87414

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TOC	0.087	+/-0.5	J			0.5	05/12/2017	09:35	LB87414
CCB2	TOC	0.08	+/-0.5	J			0.5	05/12/2017	13:32	LB87414
CCB3	TOC	0.092	+/-0.5	J			0.5	05/12/2017	15:19	LB87414



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87414

SDG No.: LB87414

Contract: Lab Code: CHEM

Case No.: LB87414

SAS No.: LB87414

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

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87414	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	MW4	SDG No.:	LB87414
Lab Sample ID:	I3093-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	9		1	0.08		0.5	mg/L		05/12/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87414	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	MW8	SDG No.:	LB87414
Lab Sample ID:	I3093-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	2.6		1	0.08		0.5	mg/L		05/12/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87414	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	MW10	SDG No.:	LB87414
Lab Sample ID:	I3093-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	3		1	0.08		0.5	mg/L		05/12/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87414	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	MW11	SDG No.:	LB87414
Lab Sample ID:	I3093-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	4.6		1	0.08		0.5	mg/L		05/12/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87414	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	MW12	SDG No.:	LB87414
Lab Sample ID:	I3093-05	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	3.9		1	0.08		0.5	mg/L		05/12/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87414	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	NW1	SDG No.:	LB87414
Lab Sample ID:	I3093-06	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	6.9		1	0.08		0.5	mg/L		05/12/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87414	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	NW3	SDG No.:	LB87414
Lab Sample ID:	I3093-07	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	3.2		1	0.08		0.5	mg/L		05/12/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87414	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	NW4	SDG No.:	LB87414
Lab Sample ID:	I3093-08	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	7.1		1	0.08		0.5	mg/L		05/12/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87414	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	NW6	SDG No.:	LB87414
Lab Sample ID:	I3093-09	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	5.1		1	0.08		0.5	mg/L		05/12/2017	SM5310B

Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87414	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	NW6	SDG No.:	LB87414
Lab Sample ID:	I3093-09	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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
- 3b -
PREPARATION BLANK SUMMARY

Client: LB87414 **SDG No.:** LB87414

Instrument: Appolo-9000

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB87414BLW	TOC	WATER 0.071	<0.5	Batch Number: U		0.5		Prep Date: 05/12/2017	09:52	LB87414



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87414	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	MW4	SDG No.:	LB87414
Lab Sample ID:	I3093-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	9		1	0.08		0.5	mg/L		05/12/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87414	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	MW8	SDG No.:	LB87414
Lab Sample ID:	I3093-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	2.6		1	0.08		0.5	mg/L		05/12/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87414	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	MW10	SDG No.:	LB87414
Lab Sample ID:	I3093-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	3		1	0.08		0.5	mg/L		05/12/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87414	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	MW11	SDG No.:	LB87414
Lab Sample ID:	I3093-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	4.6		1	0.08		0.5	mg/L		05/12/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87414	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	MW12	SDG No.:	LB87414
Lab Sample ID:	I3093-05	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	3.9		1	0.08		0.5	mg/L		05/12/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87414	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	NW1	SDG No.:	LB87414
Lab Sample ID:	I3093-06	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	6.9		1	0.08		0.5	mg/L		05/12/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87414	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	NW3	SDG No.:	LB87414
Lab Sample ID:	I3093-07	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	3.2		1	0.08		0.5	mg/L		05/12/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87414	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	NW4	SDG No.:	LB87414
Lab Sample ID:	I3093-08	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	7.1		1	0.08		0.5	mg/L		05/12/2017	SM5310B



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87414	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	NW6	SDG No.:	LB87414
Lab Sample ID:	I3093-09	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TOC	5.1		1	0.08		0.5	mg/L		05/12/2017	SM5310B

Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87414	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	NW6	SDG No.:	LB87414
Lab Sample ID:	I3093-09	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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
- 3b -
PREPARATION BLANK SUMMARY

Client: LB87414

SDG No.: LB87414

Instrument: Appolo-9000

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB87414BLW	TOC	WATER 0.071	<0.5	Batch Number: U		0.5		Prep Date: 05/12/2017	09:52	LB87414



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB87414 level: low sdg no.: LB87414
contract: lab code: CHEM case no.: LB87414 sas no.: LB87414
matrix: WATER sample id: I3093-02 client id: MW8MS
Percent Solids for Sample: 0 Spiked ID: I3093-02MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TOC	mg/L	75 - 125	11.6		2.6		10	90		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB87414 level: low sdg no.: LB87414
contract: lab code: CHEM case no.: LB87414 sas no.: LB87414
matrix: WATER sample id: I3093-02 client id: MW8MSD
Percent Solids for Sample: 0 Spiked ID: I3093-02MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TOC	mg/L	75 - 125	12.4		2.6		10	98		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB87414 **Level:** LOW **SDG No.:** LB87414
Contract: **Lab Code:** CHEM **Case No.:** LB87414 **SAS No.:** LB87414
Matrix: WATER **Sample ID:** I3093-02 **Client ID:** MW8DUP
Percent Solids for Sample: 0 **Duplicate ID** I3093-02DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TOC	mg/L	20	2.6		2.5		4		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB87414 **Level:** LOW **SDG No.:** LB87414
Contract: **Lab Code:** CHEM **Case No.:** LB87414 **SAS No.:** LB87414
Matrix: WATER **Sample ID:** I3093-02MS **Client ID:** MW8MSD
Percent Solids for Sample: 0 **Duplicate ID** I3093-02MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TOC	mg/L	20	11.6		12.4		7		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87414

SDG No.: LB87414

Contract:

Lab Code: CHEM

Case No.: LB87414

SAS No.: LB87414

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB87414BSW TOC	mg/L	10	9.2		92	90 - 110	