CHEMTECH

GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: **LB87485**   **SDG No.:** LB87485

Contract: _____   **Lab Code:** CHEM   **Case No.:** LB87485   **SAS No.:** LB87485

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	TOC	10.4	10	104	0	90 - 110		04/20/2017	21:48	LB87485

CHEMTECH

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- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: **LB87485**   **SDG No.:** LB87485

Contract: **Lab Code:** CHEM   **Case No.:** LB87485   **SAS No.:** LB87485

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	9.7	10	97	0	90 - 110		05/16/2017	12:32	LB87485
CCV2	TOC	10.4	10	104	0	90 - 110		05/16/2017	16:21	LB87485

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- 3a -
INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	LB87485					SDG No.:	LB87485		
Contract:			Lab Code:	CHEM		Case No.:	LB87485	SAS No.:	LB87485

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	LB87485

CHEMTECH

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- 3a -
INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	LB87485					**SDG No.:**	LB87485			
Contract:		**Lab Code:**	CHEM			**Case No.:**	LB87485		**SAS No.:**	LB87485

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TOC	0.09	+/-0.5	U		0.5		05/16/2017	12:54	LB87485
CCB2	TOC	0.37	+/-0.5	J		0.5		05/16/2017	16:34	LB87485

GENCHEM

- 3a -
INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87485   **SDG No.:** LB87485

Contract: **Lab Code:** CHEM   **Case No.:** LB87485   **SAS No.:** LB87485

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:	5/15/2017 12:00:00 AM
Project:	LB87485	Date Received:	5/16/2017 12:00:00 AM
Client Sample ID:	EFF-170515-05	SDG No.:	LB87485
Lab Sample ID:	I3180-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
10-35-5	TOC	3.1		1	0.097		0.5	mg/L		05/16/2017	9060

Report of Analysis

Client:		Date Collected:	5/15/2017 12:00:00 AM
Project:	LB87485	Date Received:	5/16/2017 12:00:00 AM
Client Sample ID:	EFF-170515-05	SDG No.:	LB87485
Lab Sample ID:	I3180-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

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

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	* = indicates the duplicate analysis is not within control limits.
LOD = Limit of Detection	E = Indicates the reported value is estimated because of the presence
D = Dilution	of interference.
Q = indicates LCS control criteria did not meet requirements	OR = Over Range
	N =Spiked sample recovery not within control limits

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- 3b -
PREPARATION BLANK SUMMARY

Client:	LB87485				SDG No.:	LB87485				

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
LB87485BLW		**WATER**		**Batch Number:**				**Prep Date:**		
	TOC	-0.017	<0.5	U		0.5		05/16/2017	13:31	LB87485

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- 5a -
MATRIX SPIKE SUMMARY

client:	LB87485		**level:**	low	**sdg no.:**	LB87485	
contract:			**lab code:**	CHEM	**case no.:**	LB87485	**sas no.:** LB87485
matrix:	WATER		**sample id:**	I3180-01	**client id:**	EFF-170515-05MS	

Percent Solids for Sample: 0   **Spiked ID:** I3180-01MS   **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	13.2		3.1		10	101		

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GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	LB87485	**level:**	low	**sdg no.:**	LB87485	
contract:		**lab code:**	CHEM	**case no.:** LB87485	**sas no.:**	LB87485
matrix:	WATER	**sample id:**	I3180-01	**client id:**	EFF-170515-05MSD	

Percent Solids for Sample: 0   **Spiked ID:**   I3180-01MSD   **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	12.8		3.1		10	97		

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DUPLICATE SAMPLE SUMMARY

Client: LB87485		**Level:** LOW	**SDG No.:** LB87485			
Contract:		**Lab Code:** CHEM	**Case No.:** LB87485		**SAS No.:** LB87485	
Matrix: WATER		**Sample ID:** I3180-01MS	**Client ID:** EFF-170515-05MSD			
Percent Solids for Sample: 0		**Duplicate ID** I3180-01MSD	**Percent Solids for Spike Sample:** 0			

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TOC	mg/L	20	13.2		12.8		3		

"A control limit of $\pm$20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87485   **SDG No.:** LB87485

Contract: _____   **Lab Code:** CHEM   **Case No.:** LB87485   **SAS No.:** LB87485

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB87485BSW							
TOC	mg/L	10	9.7		97	90 - 110	