



GENCHEM

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87531

SDG No.: LB87531

Contract: _____ Lab Code: CHEM

Case No.: LB87531

SAS No.: LB87531

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	TKN	4.9	5	98	0	80 - 120		05/18/2017	09:49	LB87531
CCV2	TKN	5.1	5	102	0	80 - 120		05/18/2017	09:55	LB87531
CCV3	TKN	5	5	100	0	80 - 120		05/18/2017	10:36	LB87531



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87531

SDG No.: LB87531

Contract:

Lab Code: CHEM

Case No.: LB87531

SAS No.: LB87531

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	TKN	0.22	+/-0.5	J		0.5		05/18/2017	09:49	LB87531

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TKN	0.21	+/-0.5	J		0.5		05/18/2017	09:49	LB87531
CCB2	TKN	0.23	+/-0.5	J		0.5		05/18/2017	09:55	LB87531
CCB3	TKN	0.12	+/-0.5	J		0.5		05/18/2017	10:36	LB87531



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87531

SDG No.: LB87531

Contract: Lab Code: CHEM

Case No.: LB87531

SAS No.: LB87531

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:	5/12/2017 12:00:00 AM
Project:	LB87531	Date Received:	5/12/2017 12:00:00 AM
Client Sample ID:	WS-1	SDG No.:	LB87531
Lab Sample ID:	I3150-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	0.31	J	1	0.096		0.5	mg/L	05/17/2017	05/18/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	5/12/2017 12:00:00 AM
Project:	LB87531	Date Received:	5/12/2017 12:00:00 AM
Client Sample ID:	WS-2	SDG No.:	LB87531
Lab Sample ID:	I3150-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	0.45	J	1	0.096		0.5	mg/L	05/17/2017	05/18/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	5/15/2017 12:00:00 AM
Project:	LB87531	Date Received:	5/15/2017 12:00:00 AM
Client Sample ID:	DSN001	SDG No.:	LB87531
Lab Sample ID:	I3158-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	0.54		1	0.096		0.5	mg/L	05/17/2017	05/18/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	5/15/2017 12:00:00 AM
Project:	LB87531	Date Received:	5/15/2017 12:00:00 AM
Client Sample ID:	WS-4	SDG No.:	LB87531
Lab Sample ID:	I3171-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	10.9	OR	1	0.096		0.5	mg/L	05/17/2017	05/18/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	5/15/2017 12:00:00 AM
Project:	LB87531	Date Received:	5/15/2017 12:00:00 AM
Client Sample ID:	WS-4DL	SDG No.:	LB87531
Lab Sample ID:	I3171-01DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	10.8	D	2	0.19		1	mg/L	05/17/2017	05/18/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	5/15/2017 12:00:00 AM
Project:	LB87531	Date Received:	5/15/2017 12:00:00 AM
Client Sample ID:	WS-5	SDG No.:	LB87531
Lab Sample ID:	I3171-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	3.1		1	0.096		0.5	mg/L	05/17/2017	05/18/2017	SM4500 N Org



Report of Analysis

Client:		Date Collected:	5/15/2017 12:00:00 AM
Project:	LB87531	Date Received:	5/15/2017 12:00:00 AM
Client Sample ID:	WS-5	SDG No.:	LB87531
Lab Sample ID:	I3171-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

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

Client: LB87531

SDG No.: LB87531

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB99026BL	TKN	WATER 0.22	<0.5	Batch Number: J		PB99026 0.5		Prep Date: 05/18/2017	05/17/2017 09:49	LB87531



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MATRIX SPIKE SUMMARY

client: LB87531 level: low sdg no.: LB87531
contract: lab code: CHEM case no.: LB87531 sas no.: LB87531
matrix: WATER sample id: I3150-01 client id: WS-1MS
Percent Solids for Sample: 0 Spiked ID: I3150-01MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/L	75 - 125	5.3		0.31	J	5	100		



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MATRIX SPIKE DUPLICATE SUMMARY

client: LB87531 level: low sdg no.: LB87531
contract: lab code: CHEM case no.: LB87531 sas no.: LB87531
matrix: WATER sample id: I3150-01 client id: WS-1MSD
Percent Solids for Sample: 0 Spiked ID: I3150-01MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/L	75 - 125	5.3		0.31	J	5	100		

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DUPLICATE SAMPLE SUMMARY

Client: LB87531 **Level:** LOW **SDG No.:** LB87531
Contract: **Lab Code:** CHEM **Case No.:** LB87531 **SAS No.:** LB87531
Matrix: WATER **Sample ID:** I3150-01 **Client ID:** WS-1DUP
Percent Solids for Sample: 0 **Duplicate ID** I3150-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	0.31	J	0.31	J	0		

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DUPLICATE SAMPLE SUMMARY

Client: LB87531 **Level:** LOW **SDG No.:** LB87531
Contract: **Lab Code:** CHEM **Case No.:** LB87531 **SAS No.:** LB87531
Matrix: WATER **Sample ID:** I3150-01MS **Client ID:** WS-1MSD
Percent Solids for Sample: 0 **Duplicate ID** I3150-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	5.3		5.3		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87531

SDG No.: LB87531

Contract:

Lab Code: CHEM

Case No.: LB87531

SAS No.: LB87531

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB99026BS TKN	mg/L	5	4.3		86	80 - 120	