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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86596			SDG No.:	LB86596	
Contract:	Lab Code:	CHEM	Case No.:	LB86596	SAS No.: LB86596
Initial Calibration Source:					
Continuing Calibration Source:					

		Result mg/L	True Value	%	%	Acceptance		Analysis	Analysis	Run
Sample ID	Analyte			Recovery	RSD	Window (%R)	Μ	Date	Time	Number
ICV1	TKN	5.7	5	114	0	80 - 120		03/29/2017	10:02	LB86596



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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86596			SDG No.:	LB86596		
Contract:	Lab Code:	CHEM	Case No.:	LB86596	SAS No.: LB86	596
Initial Calibration Source:		-				
Continuing Calibration Source:						

		Result mg/L	True Value	%	%	Acceptance		Analysis	Analysis	Run
Sample ID	Analyte			Recovery	RSD	Window (%R)	Μ	Date	Time	Number
CCV1	TKN	5.5	5	110	0	80 - 120		03/29/2017	10:02	LB86596
CCV2	TKN	5.5	5	110	0	80 - 120		03/29/2017	10:02	LB86596



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: <u>I</u> Contract:	B86596	Lab Code	: <u>CHEM</u>		SDG No Case No		6596 6596	SA	S No.: <u>LB</u>	86596
Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD C	RQL	М	Analysis Date	Analysis Time	Run Number
ICB1	TKN	0.23	+/-0.5	J		0.5		03/29/2017	10:02	LB86596



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: I	LB86596				SD	G No.: LB	86596			
Contract:		Lab Code	e: <u>CHEM</u>		- Cas	e No.: LB	86596	SA	S No.: LB	86596
Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	М	Analysis Date	Analysis Time	Run Number
CCB1 CCB2	TKN TKN	0.22 0.23	+/-0.5 +/-0.5	J J		0.5		03/29/2017 03/29/2017	10:02 10:02	LB86596 LB86596



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB8	36596		_		SDG	No.:	LB86596			
Contract:		Lab Code:	CHEM		Case	No.:	LB86596	_	SAS No.: LB	86596
Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Oual	LOD	CRO	L MI	Analysis Date	Analysis Time	Run Number



TKN

1.2

1

0.096

Report of Analysis

as Parameter	Conc. Qua. DF MDL	LOD LOQ / CRQL Units Prep Date	Date Ana. Ana Met.
Level (low/med):	low	% Solid:	0
Lab Sample ID:	I2433-01	Matrix:	WATER
Client Sample ID:	NORTHPORTALWALL-HYDRODEMO	SDG No.:	LB86596
Project:	LB86596	Date Received:	3/27/2017 12:00:00 AM
Client:		Date Collected:	3/27/2017 12:00:00 AM

0.5

mg/L 03/28/2017 03/29/2017 SM4500 N Org



Report of Analysis

Client:		Date Collected:	3/27/2017 12:00:00 AM
Project:	LB86596	Date Received:	3/27/2017 12:00:00 AM
Client Sample ID:	NORTHPORTALWALL-HYDRODEMO	SDG No.:	LB86596
Lab Sample ID:	I2433-01	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



GENCHEM - 3b -PREPARATION BLANK SUMMARY

Client: LB86596

SDG No.: LB86596

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	Μ	Analysis . Date	Analysis Time	Run
PB97877BL		WATER		Batch Nu	mber:	PB97877		Prep Date:	03/28/20)17
	TKN	0.22	<0.5	J		0.5		03/29/2017	10:02	LB86596



GENCHEM - 5a -MATRIX SPIKE SUMMARY

client: L	B86596		level:	lo	W		sdg no.:	LB86596			
contract:			lab co	de:	CHEM	[case no.:	LB86596	sa	s no.:	LB86596
matrix:	WATER		sample id:	12	2433-01		client id:	NORTHPOR	TALWAI	LL-HYD	RODEMOMS
Percent Solid	ls for Sample:	0	Spiked ID:]	I2433-01N	/IS	Percent Solid	ls for Spike Sa	mple:	0	
Percent Solid	is for Sample:	0 Acceptance	Spiked ID: Spiked		12433-01N Sample	4S	Percent Solid Spike	ls for Spike Sa %	mple:	0	
Percent Solid Analyte	ls for Sample: Units	0 Acceptance Limit %R	<u>.</u>	5		AS C		•	mple: Qual	0 M	



GENCHEM - 5a -MATRIX SPIKE DUPLICATE SUMMARY

client:	LB86596		level:	low		sdg no.:	LB86596		_	
contract:			lab co	ode: <u>CHEN</u>	1	case no.:	LB86596	sas	no.:	LB86596
matrix:	WATER		sample id:	I2433-01		client id:	NORTHPOR	TALWAL	L-HYD	RODEMOMSD
Percent So	lids for Sample:	0	Spiked ID	: I2433-01	MSD	Percent Solid	ls for Spike Sa	mple:	0	
		Acceptance	MSD	Sample		Spike	%			
Analyte	Units	Limit %R	Result	C Result	С	Added	Recovery	Qual	Μ	
TKN	mg/L	75 - 125	6.8	1.2		5	112			



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DUPLICATE SAMPLE SUMMARY

Client: LB86	596		Level: LO	W	SDC	6 No.:	LB86596			
Contract:		_	Lab Code:	CHEM	Case	e No.:	LB86596	S.	AS No.:	LB86596
Matrix:	WATER		Sample ID: 124	33-01	Client I	D:	NORTHPOF	TALWA	LL-HYD	RODEMODUP
Percent Solids fo	or Sample: ()	Duplicate ID 124	33-01DUP	Percent	t Solids	s for Spike Sa	mple:	0	
		Acceptance	Sample		Duplicate					
Analyte	Units	Limit	Result	С	Result	С	RPD	Qual	Μ	
TKN	mg/L	20	1.2		1.2		0			

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



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DUPLICATE SAMPLE SUMMARY

Client: LB865	96		Level: LO	W	SDG	No.:	LB86596			
Contract:		_	Lab Code:	CHEM	Case	No.:	LB86596	SA	AS No.:	LB86596
Matrix: W	ATER		Sample ID: 124	33-01MS	Client I	D:	NORTHPOR	TALWAI	LL-HYDI	RODEMOMSD
Percent Solids for	Sample: 0)	Duplicate ID 124	33-01MSD	Percent	Solids	for Spike Sa	mple:	0	
		Acceptance	Sample		Duplicate					
Analyte	Units	Limit	Result	С	Result	С	RPD	Qual	Μ	
TKN	mg/L	20	6.8		6.8		0			

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



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86	596				SDG No.:	LB86596		
Contract:			Lab Code:	CHEM	Case No.:	LB86596	SAS No.: LB86596	
					%	Acceptar	ıce	
Analyte	Units	True Value	Result	С	% Recovery	Acceptar Limits		
Analyte PB97877BS	Units	True Value	Result	С				