

Daily Analysis Runlog For Sequence/QC Batch ID # LB87419

Review By		Review On				
SubDirectory		LB87419		Test : TKN		
STD. NAME		STD REF.#				
ICAL Standard		WP54720				
ICV Standard		WP54722				
CCV Standard		WP54721				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54723				
Chk Standard		WP54307,WP54308,WP54309,WP54502				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.5PPM	0.5PPM	CAL1	05/12/17 11:10		OK
2	1.0PPM	1.0PPM	CAL2	05/12/17 11:10		OK
3	2.5PPM	2.5PPM	CAL3	05/12/17 11:10		OK
4	5.0PPM	5.0PPM	CAL4	05/12/17 11:10		OK
5	6.7PPM	6.7PPM	CAL5	05/12/17 11:10		OK
6	10.0PPM	10.0PPM	CAL6	05/12/17 11:10		OK
7	ICV1	ICV1	ICV	05/12/17 11:45		OK
8	ICB1	ICB1	ICB	05/12/17 11:45		OK
9	CCV1	CCV1	CCV	05/12/17 11:45		OK
10	CCB1	CCB1	CCB	05/12/17 11:45		OK
11	PB98873BL	PB98873BL	MB	05/12/17 11:45		OK
12	PB98873BS	PB98873BS	LCS	05/12/17 11:45		OK
13	I3046-01	TWP-13	SAM	05/12/17 11:45		OK
14	I3046-01DUP	TWP-13DUP	DUP	05/12/17 11:45		OK
15	I3046-01MS	TWP-13MS	MS	05/12/17 11:45		OK
16	I3046-01MSD	TWP-13MSD	MSD	05/12/17 11:45		OK
17	I3046-02	TWP-11	SAM	05/12/17 11:45		OK
18	I3062-15	TWP-02	SAM	05/12/17 11:46		OK
19	CCV2	CCV2	CCV	05/12/17 11:50		OK
20	CCB2	CCB2	CCB	05/12/17 11:50		OK



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Report of Analysis

Client:		Date Collected:	5/8/2017 12:00:00 AM
Project:	LB87419	Date Received:	5/8/2017 12:00:00 AM
Client Sample ID:	TWP-13	SDG No.:	LB87419
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.
	TKN	0.33	J	1	0.096		0.5	mg/L	05/11/2017	05/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	5/8/2017 12:00:00 AM
Project:	LB87419	Date Received:	5/8/2017 12:00:00 AM
Client Sample ID:	TWP-11	SDG No.:	LB87419
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.
	TKN	0.64		1	0.096		0.5	mg/L	05/11/2017	05/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87419	Date Received:	5/9/2017 12:00:00 AM
Client Sample ID:	TWP-02	SDG No.:	LB87419
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.
	TKN	5.4		1	0.096		0.5	mg/L	05/11/2017	05/12/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87419	Date Received:	5/9/2017 12:00:00 AM
Client Sample ID:	TWP-02	SDG No.:	LB87419
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: LB87419

SDG No.: LB87419

Contract: _____

Lab Code: CHEM

Case No.: LB87419

SAS No.: LB87419

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	TKN	4.5	5	90	0	80 - 120		05/12/2017	11:45	LB87419



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87419

SDG No.: LB87419

Contract: _____ Lab Code: CHEM

Case No.: LB87419

SAS No.: LB87419

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	5.3	5	106	0	80 - 120		05/12/2017	11:45	LB87419
CCV2	TKN	5.5	5	110	0	80 - 120		05/12/2017	11:50	LB87419



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87419

SDG No.: LB87419

Contract:

Lab Code: CHEM

Case No.: LB87419

SAS No.: LB87419

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	TKN	0.087	+/-0.5	U		0.5		05/12/2017	11:45	LB87419



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87419

SDG No.: LB87419

Contract:

Lab Code: CHEM

Case No.: LB87419

SAS No.: LB87419

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TKN	0.078	+/-0.5	U			0.5	05/12/2017	11:45	LB87419
CCB2	TKN	0.093	+/-0.5	U			0.5	05/12/2017	11:50	LB87419



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87419

SDG No.: LB87419

Contract: Lab Code: CHEM

Case No.: LB87419

SAS No.: LB87419

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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- 3b -
PREPARATION BLANK SUMMARY

Client: LB87419

SDG No.: LB87419

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
PB98873BL	TKN	WATER 0.078	<0.5	Batch Number: U		PB98873 0.5		Prep Date: 05/12/2017	05/11/2017 11:45	LB87419



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- 5a -
MATRIX SPIKE SUMMARY

client: LB87419 level: low sdg no.: LB87419
contract: lab code: CHEM case no.: LB87419 sas no.: LB87419
matrix: WATER sample id: I3046-01 client id: TWP-13MS
Percent Solids for Sample: 0 Spiked ID: I3046-01MS 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	5.7		0.33	J	5	107		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB87419 level: low sdg no.: LB87419
contract: lab code: CHEM case no.: LB87419 sas no.: LB87419
matrix: WATER sample id: I3046-01 client id: TWP-13MSD
Percent Solids for Sample: 0 Spiked ID: I3046-01MSD 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	5.7		0.33	J	5	107		

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DUPLICATE SAMPLE SUMMARY

Client: LB87419 **Level:** LOW **SDG No.:** LB87419
Contract: **Lab Code:** CHEM **Case No.:** LB87419 **SAS No.:** LB87419
Matrix: WATER **Sample ID:** I3046-01 **Client ID:** TWP-13DUP
Percent Solids for Sample: 0 **Duplicate ID** I3046-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	0.33	J	0.32	J	3		

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DUPLICATE SAMPLE SUMMARY

Client: LB87419 **Level:** LOW **SDG No.:** LB87419
Contract: **Lab Code:** CHEM **Case No.:** LB87419 **SAS No.:** LB87419
Matrix: WATER **Sample ID:** I3046-01MS **Client ID:** TWP-13MSD
Percent Solids for Sample: 0 **Duplicate ID** I3046-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	5.7		5.7		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87419

SDG No.: LB87419

Contract:

Lab Code: CHEM

Case No.: LB87419

SAS No.: LB87419

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB98873BS TKN	mg/L	5	4.5		90	80 - 120	