

Daily Analysis Runlog For Sequence/QC Batch ID # LB89401

Review By

Review On

SubDirectory

LB89401

Test :

TKN

STD. NAME	STD REF.#
ICAL Standard	WP56979
ICV Standard	WP56981
CCV Standard	WP56980
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP6982
Chk Standard	WP57031,WP56632,WP57137,WP56634

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.5PPM	0.5PPM	CAL1	08/10/17 13:38		OK
2	1.0PPM	1.0PPM	CAL2	08/10/17 13:38		OK
3	2.5PPM	2.5PPM	CAL3	08/10/17 13:38		OK
4	5.0PPM	5.0PPM	CAL4	08/10/17 13:38		OK
5	6.7PPM	6.7PPM	CAL5	08/10/17 13:39		OK
6	10.0PPM	10.0PPM	CAL6	08/10/17 13:39		OK
7	ICV1	ICV1	ICV	08/10/17 14:22		OK
8	ICB1	ICB1	ICB	08/10/17 14:22		OK
9	CCV1	CCV1	CCV	08/10/17 14:22		OK
10	CCB1	CCB1	CCB	08/10/17 14:22		OK
11	PB101379BL	PB101379BL	MB	08/10/17 14:22		OK
12	PB101379BS	PB101379BS	LCS	08/10/17 14:22		OK
13	I4664-01	DSN001	SAM	08/10/17 14:22		OK
14	I4664-01DUP	DSN001DUP	DUP	08/10/17 14:33		OK
15	I4664-01MS	DSN001MS	MS	08/10/17 14:33		OK
16	I4664-01MSD	DSN001MSD	MSD	08/10/17 14:33		OK
17	I4681-10	TWP-17	SAM	08/10/17 14:33		Dilution
18	DOC1	DOC1	LCS	08/10/17 14:33		OK
19	DOC2	DOC2	LCS	08/10/17 14:33		OK
20	CCV2	CCV2	CCV	08/10/17 14:33		OK
21	CCB2	CCB2	CCB	08/10/17 14:33		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB89401

Review By		Review On				
SubDirectory		LB89401		Test : TKN		
STD. NAME		STD REF.#				
ICAL Standard		WP56979				
ICV Standard		WP56981				
CCV Standard		WP56980				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP6982				
Chk Standard		WP57031,WP56632,WP57137,WP56634				
22	DOC3	DOC3	LCS	08/10/17 14:33		OK
23	DOC4	DOC4	LCS	08/10/17 14:33		OK
24	CCV3	CCV3	CCV	08/10/17 14:33		OK
25	CCB3	CCB3	CCB	08/10/17 14:36		OK
26	I4681-10DL	TWP-17DL	SAM	08/10/17 15:01		Confirms
27	I4681-11	TWP-09	SAM	08/10/17 15:42		OK
28	CCV4	CCV4	CCV	08/10/17 15:42		OK
29	CCB4	CCB4	CCB	08/10/17 15:42		OK



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Report of Analysis

Client:		Date Collected:	8/7/2017 12:00:00 AM
Project:	LB89401	Date Received:	8/7/2017 12:00:00 AM
Client Sample ID:	DSN001	SDG No.:	LB89401
Lab Sample ID:	I4664-01	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	0.87		1	0.096		0.5	mg/L	08/09/2017	08/10/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89401	Date Received:	8/8/2017 12:00:00 AM
Client Sample ID:	TWP-17	SDG No.:	LB89401
Lab Sample ID:	I4681-10	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	15.1	OR	1	0.096		0.5	mg/L	08/09/2017	08/10/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89401	Date Received:	8/8/2017 12:00:00 AM
Client Sample ID:	TWP-17DL	SDG No.:	LB89401
Lab Sample ID:	I4681-10DL	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	16	D	2	0.19		1	mg/L	08/09/2017	08/10/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89401	Date Received:	8/8/2017 12:00:00 AM
Client Sample ID:	TWP-09	SDG No.:	LB89401
Lab Sample ID:	I4681-11	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	3.4		1	0.096		0.5	mg/L	08/09/2017	08/10/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89401	Date Received:	8/8/2017 12:00:00 AM
Client Sample ID:	TWP-09	SDG No.:	LB89401
Lab Sample ID:	I4681-11	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: LB89401

SDG No.: LB89401

Contract: _____ Lab Code: CHEM

Case No.: LB89401

SAS No.: LB89401

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	5.1	5	102	0	80 - 120		08/10/2017	14:22	LB89401



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89401

SDG No.: LB89401

Contract: _____ Lab Code: CHEM

Case No.: LB89401

SAS No.: LB89401

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	5.2	5	104	0	80 - 120		08/10/2017	14:22	LB89401
CCV2	TKN	5.2	5	104	0	80 - 120		08/10/2017	14:33	LB89401
CCV3	TKN	5.3	5	106	0	80 - 120		08/10/2017	14:33	LB89401
CCV4	TKN	5.4	5	108	0	80 - 120		08/10/2017	15:42	LB89401



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89401 **SDG No.:** LB89401
Contract: **Lab Code:** CHEM **Case No.:** LB89401 **SAS No.:** LB89401

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	TKN	0.092	+/-0.5	U		0.5		08/10/2017	14:22	LB89401



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89401

SDG No.: LB89401

Contract:

Lab Code: CHEM

Case No.: LB89401

SAS No.: LB89401

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TKN	0.095	+/-0.5	U			0.5	08/10/2017	14:22	LB89401
CCB2	TKN	0.1	+/-0.5	J			0.5	08/10/2017	14:33	LB89401
CCB3	TKN	0.11	+/-0.5	J			0.5	08/10/2017	14:36	LB89401
CCB4	TKN	0.11	+/-0.5	J			0.5	08/10/2017	15:42	LB89401



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB89401

SDG No.:

LB89401

Contract:

Lab Code:

CHEM

Case No.:

LB89401

SAS No.:

LB89401

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

Client: LB89401

SDG No.: LB89401

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
PB101379BL	TKN	WATER 0.093	<0.5	Batch Number: U		PB101379 0.5		Prep Date: 08/10/2017	08/09/2017 14:22	LB89401



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB89401 level: low sdg no.: LB89401
contract: lab code: CHEM case no.: LB89401 sas no.: LB89401
matrix: WATER sample id: I4664-01 client id: DSN001MS
Percent Solids for Sample: 0 Spiked ID: I4664-01MS 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	6.2		0.87		5	107		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB89401 level: low sdg no.: LB89401
contract: lab code: CHEM case no.: LB89401 sas no.: LB89401
matrix: WATER sample id: I4664-01 client id: DSN001MSD
Percent Solids for Sample: 0 Spiked ID: I4664-01MSD 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	6.2		0.87		5	107		



GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB89401 Level: LOW SDG No.: LB89401
Contract: Lab Code: CHEM Case No.: LB89401 SAS No.: LB89401
Matrix: WATER Sample ID: I4664-01 Client ID: DSN001DUP
Percent Solids for Sample: 0 Duplicate ID I4664-01DUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	0.87		0.87		0		

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

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB89401 **Level:** LOW **SDG No.:** LB89401
Contract: **Lab Code:** CHEM **Case No.:** LB89401 **SAS No.:** LB89401
Matrix: WATER **Sample ID:** I4664-01MS **Client ID:** DSN001MSD
Percent Solids for Sample: 0 **Duplicate ID** I4664-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	6.2		6.2		0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89401

SDG No.: LB89401

Contract:

Lab Code: CHEM

Case No.: LB89401

SAS No.: LB89401

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC1 TKN	mg/L	5	5.3		106	80 - 120	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89401

SDG No.: LB89401

Contract:

Lab Code: CHEM

Case No.: LB89401

SAS No.: LB89401

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC2 TKN	mg/L	5	5.2		104	80 - 120	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89401

SDG No.: LB89401

Contract:

Lab Code: CHEM

Case No.: LB89401

SAS No.: LB89401

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC3 TKN	mg/L	5	5.3		106	80 - 120	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89401

SDG No.: LB89401

Contract:

Lab Code: CHEM

Case No.: LB89401

SAS No.: LB89401

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC4 TKN	mg/L	5	5.2		104	80 - 120	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89401

SDG No.: LB89401

Contract:

Lab Code: CHEM

Case No.: LB89401

SAS No.: LB89401

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB101379BS TKN	mg/L	5	5.3		106	80 - 120	