

Daily Analysis Runlog For Sequence/QC Batch ID # LB91257

Review By

SubDirectory

Review On

Test : TKN

LB91257

STD. NAME		STD REF.#				
ICAL Standard		WP59242				
ICV Standard		WP59244				
CCV Standard		WP59243				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP59245				
Chk Standard		WP59101,WP59102,WP59238,WP57031				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.5PPM	0.5PPM	CAL1	10/31/17 13:05		OK
2	1.0PPM	1.0PPM	CAL2	10/31/17 13:05		OK
3	2.5PPM	2.5PPM	CAL3	10/31/17 13:05		OK
4	5.0PPM	5.0PPM	CAL4	10/31/17 13:05		OK
5	6.7PPM	6.7PPM	CAL5	10/31/17 13:05		OK
6	10.0PPM	10.0PPM	CAL6	10/31/17 13:05		OK
7	ICV1	ICV1	ICV	10/31/17 17:27		OK
8	ICB1	ICB1	ICB	10/31/17 17:27		OK
9	CCV1	CCV1	CCV	10/31/17 17:27		OK
10	CCB1	CCB1	CCB	10/31/17 17:27		OK
11	PB103850BL	PB103850BL	MB	10/31/17 17:27		OK
12	PB103850BS	PB103850BS	LCS	10/31/17 17:27		OK
13	I6143-01	RLF-GW-7S	SAM	10/31/17 17:27	TKN high	Dilution
14	I6143-02	RLF-GW-9S	SAM	10/31/17 17:27		OK
15	I6143-06	RLF-FD-01	SAM	10/31/17 17:27	TKN high	Dilution
16	I6160-01	RLF-SW-1	SAM	10/31/17 17:27		OK
17	I6160-02	RLF-SW-3	SAM	10/31/17 17:27		OK
18	I6160-03	RLF-SW-4	SAM	10/31/17 17:27		OK
19	I6160-04	RLF-SW-5	SAM	10/31/17 17:38		OK
20	I6160-05	RLF-SW-6	SAM	10/31/17 17:38		OK
21	CCV2	CCV2	CCV	10/31/17 17:38		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB91257

Review By		Review On				
SubDirectory		LB91257		Test : TKN		
STD. NAME		STD REF.#				
ICAL Standard		WP59242				
ICV Standard		WP59244				
CCV Standard		WP59243				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP59245				
Chk Standard		WP59101,WP59102,WP59238,WP57031				
22	CCB2	CCB2	CCB	10/31/17 17:38		OK
23	I6160-06	RLF-FD-02	SAM	10/31/17 17:38		OK
24	I6234-04	TW-5-DEP	SAM	10/31/17 17:38		OK
25	I6234-04DUP	TW-5-DEPDUP	DUP	10/31/17 17:38		OK
26	I6234-04MS	TW-5-DEPMS	MS	10/31/17 17:38		OK
27	I6234-04MSD	TW-5-DEPMSD	MSD	10/31/17 17:38		OK
28	PB103851BL	PB103851BL	MB	10/31/17 17:38		OK
29	PB103851BS	PB103851BS	LCS	10/31/17 17:38		OK
30	I6157-01	RLF-SD-1	SAM	10/31/17 17:38	TKN high	Dilution
31	I6157-01DUP	RLF-SD-1DUP	DUP	10/31/17 17:49		OK
32	I6157-01MS	RLF-SD-1MS	MS	10/31/17 17:49		OK
33	CCV3	CCV3	CCV	10/31/17 17:49		OK
34	CCB3	CCB3	CCB	10/31/17 17:49		OK
35	I6157-01MSD	RLF-SD-1MSD	MSD	10/31/17 17:49		OK
36	I6157-02	RLF-SD-3	SAM	10/31/17 17:49	TKN high	Dilution
37	I6157-03	RLF-SD-4	SAM	10/31/17 17:49		OK
38	I6157-04	RLF-SD-5	SAM	10/31/17 17:49	TKN high	Dilution
39	I6157-05	RLF-SD-6	SAM	10/31/17 17:49	TKN high	Dilution
40	I6157-06	RLF-FD-02	SAM	10/31/17 17:49	TKN high	Dilution
41	DOC-SOIL-1	DOC-SOIL-1	LCS	10/31/17 17:49		OK
42	DOC-SOIL-2	DOC-SOIL-2	LCS	10/31/17 17:49		OK
43	DOC-SOIL-3	DOC-SOIL-3	LCS	10/31/17 17:55		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB91257

Review By			Review On			
SubDirectory		LB91257		Test : TKN		
STD. NAME		STD REF.#				
ICAL Standard		WP59242				
ICV Standard		WP59244				
CCV Standard		WP59243				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP59245				
Chk Standard		WP59101,WP59102,WP59238,WP57031				
44	DOC-SOIL-4	DOC-SOIL-4	LCS	10/31/17 17:55		OK
45	CCV4	CCV4	CCV	10/31/17 17:55		OK
46	CCB4	CCB4	CCB	10/31/17 17:55		OK
47	I6143-01DL	RLF-GW-7SDL	SAM	10/31/17 18:33	10X Dilution for TKN	Confirms
48	I6143-06DL	RLF-FD-01DL	SAM	10/31/17 18:33	10X Dilution for TKN	Confirms
49	I6157-01DL	RLF-SD-1DL	SAM	10/31/17 18:33	2X Dilution for TKN	Confirms
50	I6157-02DL	RLF-SD-3DL	SAM	10/31/17 18:33	2X Dilution for TKN	Confirms
51	I6157-04DL	RLF-SD-5DL	SAM	10/31/17 18:33	5X Dilution for TKN	Confirms
52	I6157-05DL	RLF-SD-6DL	SAM	10/31/17 18:33	2X Dilution for TKN	Confirms
53	I6157-06DL	RLF-FD-02DL	SAM	10/31/17 18:33	5X Dilution for TKN	Confirms
54	CCV5	CCV5	CCV	10/31/17 18:33		OK
55	CCB5	CCB5	CCB	10/31/17 18:33		OK



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Report of Analysis

Client:		Date Collected:	10/24/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/25/2017 12:00:00 AM
Client Sample ID:	RLF-GW-7S	SDG No.:	LB91257
Lab Sample ID:	I6143-01	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	49.6	OR	1	0.096		0.5	mg/L	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/24/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/25/2017 12:00:00 AM
Client Sample ID:	RLF-GW-7SDL	SDG No.:	LB91257
Lab Sample ID:	I6143-01DL	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	43.4	D	10	0.96		5	mg/L	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/24/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/25/2017 12:00:00 AM
Client Sample ID:	RLF-GW-9S	SDG No.:	LB91257
Lab Sample ID:	I6143-02	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	2.1		1	0.096		0.5	mg/L	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/24/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/25/2017 12:00:00 AM
Client Sample ID:	RLF-FD-01	SDG No.:	LB91257
Lab Sample ID:	I6143-06	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	49.6	OR	1	0.096		0.5	mg/L	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/24/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/25/2017 12:00:00 AM
Client Sample ID:	RLF-FD-01DL	SDG No.:	LB91257
Lab Sample ID:	I6143-06DL	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	52.8	D	10	0.96		5	mg/L	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-SD-1	SDG No.:	LB91257
Lab Sample ID:	I6157-01	Matrix:	Solid
Level (low/med):	low	% Solid:	70.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	690	OR	1	6.6		34.4	mg/Kg	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-SD-1DL	SDG No.:	LB91257
Lab Sample ID:	I6157-01DL	Matrix:	Solid
Level (low/med):	low	% Solid:	70.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	675	D	2	13.2		68.8	mg/Kg	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-SD-3	SDG No.:	LB91257
Lab Sample ID:	I6157-02	Matrix:	Solid
Level (low/med):	low	% Solid:	66

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	905	OR	1	7		36.4	mg/Kg	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-SD-3DL	SDG No.:	LB91257
Lab Sample ID:	I6157-02DL	Matrix:	Solid
Level (low/med):	low	% Solid:	66

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	892	D	2	14		72.8	mg/Kg	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-SD-4	SDG No.:	LB91257
Lab Sample ID:	I6157-03	Matrix:	Solid
Level (low/med):	low	% Solid:	64.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	653		1	7.1		37	mg/Kg	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-SD-5	SDG No.:	LB91257
Lab Sample ID:	I6157-04	Matrix:	Solid
Level (low/med):	low	% Solid:	52.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	2130	OR	1	8.7		45.5	mg/Kg	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-SD-5DL	SDG No.:	LB91257
Lab Sample ID:	I6157-04DL	Matrix:	Solid
Level (low/med):	low	% Solid:	52.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	1970	D	5	43.7		228	mg/Kg	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-SD-6	SDG No.:	LB91257
Lab Sample ID:	I6157-05	Matrix:	Solid
Level (low/med):	low	% Solid:	54.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	1350	OR	1	8.4		43.9	mg/Kg	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-SD-6DL	SDG No.:	LB91257
Lab Sample ID:	I6157-05DL	Matrix:	Solid
Level (low/med):	low	% Solid:	54.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	1280	D	2	16.8		87.7	mg/Kg	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-FD-02	SDG No.:	LB91257
Lab Sample ID:	I6157-06	Matrix:	Solid
Level (low/med):	low	% Solid:	57.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	2170	OR	1	8.1		42.1	mg/Kg	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-FD-02DL	SDG No.:	LB91257
Lab Sample ID:	I6157-06DL	Matrix:	Solid
Level (low/med):	low	% Solid:	57.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	2030	D	5	40.5		211	mg/Kg	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-SW-1	SDG No.:	LB91257
Lab Sample ID:	I6160-01	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	0.29	J	1	0.096		0.5	mg/L	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-SW-3	SDG No.:	LB91257
Lab Sample ID:	I6160-02	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	0.47	J	1	0.096		0.5	mg/L	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-SW-4	SDG No.:	LB91257
Lab Sample ID:	I6160-03	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	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-SW-5	SDG No.:	LB91257
Lab Sample ID:	I6160-04	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	2.3		1	0.096		0.5	mg/L	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-SW-6	SDG No.:	LB91257
Lab Sample ID:	I6160-05	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	7		1	0.096		0.5	mg/L	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	RLF-FD-02	SDG No.:	LB91257
Lab Sample ID:	I6160-06	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	8.1		1	0.096		0.5	mg/L	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/28/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	TW-5-DEP	SDG No.:	LB91257
Lab Sample ID:	I6234-04	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	2.5		1	0.096		0.5	mg/L	10/31/2017	10/31/2017	SM4500 N Org



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Report of Analysis

Client:		Date Collected:	10/28/2017 12:00:00 AM
Project:	LB91257	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	TW-5-DEP	SDG No.:	LB91257
Lab Sample ID:	I6234-04	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: LB91257

SDG No.: LB91257

Contract: _____ Lab Code: CHEM

Case No.: LB91257

SAS No.: LB91257

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	5	100	0	80 - 120		10/31/2017	17:27	LB91257



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB91257

SDG No.: LB91257

Contract: _____ Lab Code: CHEM

Case No.: LB91257

SAS No.: LB91257

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	4.8	5	96	0	80 - 120		10/31/2017	17:27	LB91257
CCV2	TKN	4.8	5	96	0	80 - 120		10/31/2017	17:38	LB91257
CCV3	TKN	4.9	5	98	0	80 - 120		10/31/2017	17:49	LB91257
CCV4	TKN	5.2	5	104	0	80 - 120		10/31/2017	17:55	LB91257
CCV5	TKN	4.9	5	98	0	80 - 120		10/31/2017	18:33	LB91257



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91257

SDG No.: LB91257

Contract:

Lab Code: CHEM

Case No.: LB91257

SAS No.: LB91257

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	TKN	0.14	+/-0.5	J		0.5		10/31/2017	17:27	LB91257



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91257

SDG No.: LB91257

Contract:

Lab Code: CHEM

Case No.: LB91257

SAS No.: LB91257

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TKN	0.14	+/-0.5	J			0.5	10/31/2017	17:27	LB91257
CCB2	TKN	0.14	+/-0.5	J			0.5	10/31/2017	17:38	LB91257
CCB3	TKN	0.15	+/-0.5	J			0.5	10/31/2017	17:49	LB91257
CCB4	TKN	0.15	+/-0.5	J			0.5	10/31/2017	17:55	LB91257
CCB5	TKN	0.14	+/-0.5	J			0.5	10/31/2017	18:33	LB91257



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91257

SDG No.: LB91257

Contract: Lab Code: CHEM

Case No.: LB91257

SAS No.: LB91257

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: LB91257

SDG No.: LB91257

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
PB103850BL	TKN	WATER		Batch Number:		PB103850		Prep Date:	10/31/2017	
		0.15	<0.5	J		0.5		10/31/2017	17:27	LB91257
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB103851BL	TKN	SOLID		Batch Number:		PB103851		Prep Date:	10/31/2017	
		6.7	<24.3	J		24.3		10/31/2017	17:38	LB91257



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91257 level: low sdg no.: LB91257
contract: lab code: CHEM case no.: LB91257 sas no.: LB91257
matrix: Solid sample id: I6157-01 client id: RLF-SD-1MS
Percent Solids for Sample: 70.6 Spiked ID: I6157-01MS Percent Solids for Spike Sample: 70.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/Kg	75 - 125	1180	OR	690	OR	350	140	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91257 level: low sdg no.: LB91257
contract: lab code: CHEM case no.: LB91257 sas no.: LB91257
matrix: Solid sample id: I6157-01 client id: RLF-SD-1MSD
Percent Solids for Sample: 70.6 Spiked ID: I6157-01MSD Percent Solids for Spike Sample: 70.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/Kg	75 - 125	1200	OR	690	OR	340	150	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91257 level: low sdg no.: LB91257
contract: lab code: CHEM case no.: LB91257 sas no.: LB91257
matrix: WATER sample id: I6234-04 client id: TW-5-DEPMS
Percent Solids for Sample: 0 Spiked ID: I6234-04MS 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	8.2		2.5		5	114		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91257 level: low sdg no.: LB91257
contract: lab code: CHEM case no.: LB91257 sas no.: LB91257
matrix: WATER sample id: I6234-04 client id: TW-5-DEPMSD
Percent Solids for Sample: 0 Spiked ID: I6234-04MSD 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	8		2.5		5	110		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91257 **Level:** LOW **SDG No.:** LB91257
Contract: **Lab Code:** CHEM **Case No.:** LB91257 **SAS No.:** LB91257
Matrix: Solid **Sample ID:** I6157-01 **Client ID:** RLF-SD-1DUP
Percent Solids for Sample: 70.6 **Duplicate ID** I6157-01DUP **Percent Solids for Spike Sample:** 70.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/Kg	20	690	OR	726	OR	5		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91257 **Level:** LOW **SDG No.:** LB91257
Contract: **Lab Code:** CHEM **Case No.:** LB91257 **SAS No.:** LB91257
Matrix: Solid **Sample ID:** I6157-01MS **Client ID:** RLF-SD-1MSD
Percent Solids for Sample: 70.6 **Duplicate ID** I6157-01MSD **Percent Solids for Spike Sample:** 70.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/Kg	20	1180	OR	1200	OR	2		



GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91257 Level: LOW SDG No.: LB91257
Contract: _____ Lab Code: CHEM Case No.: LB91257 SAS No.: LB91257
Matrix: WATER Sample ID: I6234-04 Client ID: TW-5-DEPDUP
Percent Solids for Sample: 0 Duplicate ID I6234-04DUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	2.5		2.5		0		

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

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91257 **Level:** LOW **SDG No.:** LB91257
Contract: **Lab Code:** CHEM **Case No.:** LB91257 **SAS No.:** LB91257
Matrix: WATER **Sample ID:** I6234-04MS **Client ID:** TW-5-DEPMSD
Percent Solids for Sample: 0 **Duplicate ID** I6234-04MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/L	20	8.2			8	2		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91257

SDG No.: LB91257

Contract:

Lab Code: CHEM

Case No.: LB91257

SAS No.: LB91257

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC-SOIL-1 TKN	mg/L	5	5.1		102	80 - 120	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91257

SDG No.: LB91257

Contract:

Lab Code: CHEM

Case No.: LB91257

SAS No.: LB91257

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC-SOIL-2 TKN	mg/L	5	4.8		96	80 - 120	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91257

SDG No.: LB91257

Contract:

Lab Code: CHEM

Case No.: LB91257

SAS No.: LB91257

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC-SOIL-3 TKN	mg/L	5	5.2		104	80 - 120	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91257

SDG No.: LB91257

Contract:

Lab Code: CHEM

Case No.: LB91257

SAS No.: LB91257

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC-SOIL-4 TKN	mg/L	5	5.3		106	80 - 120	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91257

SDG No.: LB91257

Contract:

Lab Code: CHEM

Case No.: LB91257

SAS No.: LB91257

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB103850BS TKN	mg/L	5	4.9		98	80 - 120	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91257

SDG No.: LB91257

Contract:

Lab Code: CHEM

Case No.: LB91257

SAS No.: LB91257

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB103851BS TKN	mg/Kg	240	243		101.3	80 - 120	