



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93828

SDG No.: LB93828

Contract: _____ Lab Code: CHEM

Case No.: LB93828

SAS No.: LB93828

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Reactive Cyanide	0.093	0.099	93.9		85 - 115		03/12/2018	11:40	LB93828



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Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Reactive Cyanide	0.24	0.25	96		90 - 110		03/12/2018	11:40	LB93828
CCV2	Reactive Cyanide	0.24	0.25	96		90 - 110		03/12/2018	11:47	LB93828
CCV3	Reactive Cyanide	0.25	0.25	100		90 - 110		03/12/2018	11:47	LB93828



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93828

SDG No.: LB93828

Contract:

Lab Code: CHEM

Case No.: LB93828

SAS No.: LB93828

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0	+/-0.005	U		0.005		03/12/2018	11:40	LB93828

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.00014	+/-0.005	U		0.005		03/12/2018	11:40	LB93828
CCB2	Reactive Cyanide	-0.00021	+/-0.005	U		0.005		03/12/2018	11:47	LB93828
CCB3	Reactive Cyanide	0	+/-0.005	U		0.005		03/12/2018	11:47	LB93828



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Client: LB93828

SDG No.: LB93828

Contract: Lab Code: CHEM

Case No.: LB93828

SAS No.: LB93828

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:	3/9/2018 12:00:00 AM
Project:	LB93828	Date Received:	3/9/2018 12:00:00 AM
Client Sample ID:	TP-1-3FT	SDG No.:	LB93828
Lab Sample ID:	J1776-07	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0036	U	1	0.025		0.05	mg/Kg	03/12/2018	03/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/9/2018 12:00:00 AM
Project:	LB93828	Date Received:	3/9/2018 12:00:00 AM
Client Sample ID:	TP-1-6FT	SDG No.:	LB93828
Lab Sample ID:	J1776-13	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0025	U	1	0.025		0.05	mg/Kg	03/12/2018	03/12/2018	9012B

Report of Analysis

Client:		Date Collected:	3/9/2018 12:00:00 AM
Project:	LB93828	Date Received:	3/9/2018 12:00:00 AM
Client Sample ID:	TP-2-3FT	SDG No.:	LB93828
Lab Sample ID:	J1776-19	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0051	U	1	0.025		0.05	mg/Kg	03/12/2018	03/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/9/2018 12:00:00 AM
Project:	LB93828	Date Received:	3/9/2018 12:00:00 AM
Client Sample ID:	TP-2-6FT	SDG No.:	LB93828
Lab Sample ID:	J1776-25	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0032	U	1	0.025		0.05	mg/Kg	03/12/2018	03/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/9/2018 12:00:00 AM
Project:	LB93828	Date Received:	3/9/2018 12:00:00 AM
Client Sample ID:	WC-06-08-12	SDG No.:	LB93828
Lab Sample ID:	J1870-03	Matrix:	Solid
Level (low/med):	low	% Solid:	84.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0039	U	1	0.025		0.05	mg/Kg	03/12/2018	03/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/9/2018 12:00:00 AM
Project:	LB93828	Date Received:	3/9/2018 12:00:00 AM
Client Sample ID:	TP-8-COMP	SDG No.:	LB93828
Lab Sample ID:	J1873-04	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0053	U	1	0.025		0.05	mg/Kg	03/12/2018	03/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/9/2018 12:00:00 AM
Project:	LB93828	Date Received:	3/9/2018 12:00:00 AM
Client Sample ID:	TP-9A-COMP	SDG No.:	LB93828
Lab Sample ID:	J1873-07	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0027	U	1	0.025		0.05	mg/Kg	03/12/2018	03/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/9/2018 12:00:00 AM
Project:	LB93828	Date Received:	3/9/2018 12:00:00 AM
Client Sample ID:	TP-9B-COMP	SDG No.:	LB93828
Lab Sample ID:	J1873-10	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00074	U	1	0.025		0.05	mg/Kg	03/12/2018	03/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/9/2018 12:00:00 AM
Project:	LB93828	Date Received:	3/9/2018 12:00:00 AM
Client Sample ID:	MHC-WCIS	SDG No.:	LB93828
Lab Sample ID:	J1874-02	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0026	U	1	0.025		0.05	mg/Kg	03/12/2018	03/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/8/2018 12:00:00 AM
Project:	LB93828	Date Received:	3/9/2018 12:00:00 AM
Client Sample ID:	WC-04-04-10	SDG No.:	LB93828
Lab Sample ID:	J1876-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0044	U	1	0.025		0.05	mg/Kg	03/12/2018	03/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/8/2018 12:00:00 AM
Project:	LB93828	Date Received:	3/9/2018 12:00:00 AM
Client Sample ID:	WC-05-01-03	SDG No.:	LB93828
Lab Sample ID:	J1876-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0032	U	1	0.025		0.05	mg/Kg	03/12/2018	03/12/2018	9012B



Report of Analysis

Client:		Date Collected:	3/8/2018 12:00:00 AM
Project:	LB93828	Date Received:	3/9/2018 12:00:00 AM
Client Sample ID:	WC-05-01-03	SDG No.:	LB93828
Lab Sample ID:	J1876-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

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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- 3b -
PREPARATION BLANK SUMMARY

Client: LB93828

SDG No.: LB93828

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB107247BL	Reactive Cyanide	SOLID -0.0036	<0.05	Batch Number: U		PB107247 0.05		Prep Date: 03/12/2018	03/12/2018 11:40	LB93828

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DUPLICATE SAMPLE SUMMARY

Client: LB93828 **Level:** LOW **SDG No.:** LB93828
Contract: **Lab Code:** CHEM **Case No.:** LB93828 **SAS No.:** LB93828
Matrix: Solid **Sample ID:** J1776-07 **Client ID:** TP-1-3FTDUP
Percent Solids for Sample: 100 **Duplicate ID** J1776-07DUP **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	-0.0036	U			