



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92586

SDG No.: LB92586

Contract: _____ Lab Code: CHEM

Case No.: LB92586

SAS No.: LB92586

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	Reactive Cyanide	0.098	0.099	99	0	85 - 115		01/12/2018	13:19	LB92586



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Client: LB92586

SDG No.: LB92586

Contract: _____ Lab Code: CHEM

Case No.: LB92586

SAS No.: LB92586

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	Reactive Cyanide	0.24	0.25	96	0	90 - 110		01/12/2018	13:19	LB92586
CCV2	Reactive Cyanide	0.24	0.25	96	0	90 - 110		01/12/2018	13:27	LB92586
CCV3	Reactive Cyanide	0.25	0.25	100	0	90 - 110		01/12/2018	13:33	LB92586



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92586

SDG No.: LB92586

Contract:

Lab Code: CHEM

Case No.: LB92586

SAS No.: LB92586

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00047	+/-0.005	U		0.005		01/12/2018	13:19	LB92586



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92586

SDG No.: LB92586

Contract:

Lab Code: CHEM

Case No.: LB92586

SAS No.: LB92586

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00033	+/-0.005	U		0.005		01/12/2018	13:19	LB92586
CCB2	Reactive Cyanide	0.00033	+/-0.005	U		0.005		01/12/2018	13:27	LB92586
CCB3	Reactive Cyanide	0.00039	+/-0.005	U		0.005		01/12/2018	13:33	LB92586



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92586

SDG No.: LB92586

Contract: Lab Code: CHEM

Case No.: LB92586

SAS No.: LB92586

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:	1/11/2018 12:00:00 AM
Project:	LB92586	Date Received:	1/11/2018 12:00:00 AM
Client Sample ID:	BU-02-011118	SDG No.:	LB92586
Lab Sample ID:	J1010-02	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	-0.002	U	1	0.025		0.05	mg/Kg	01/12/2018	01/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/11/2018 12:00:00 AM
Project:	LB92586	Date Received:	1/11/2018 12:00:00 AM
Client Sample ID:	HR-05-011118-A	SDG No.:	LB92586
Lab Sample ID:	J1011-11	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	-0.00092	U	1	0.025		0.05	mg/Kg	01/12/2018	01/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/11/2018 12:00:00 AM
Project:	LB92586	Date Received:	1/11/2018 12:00:00 AM
Client Sample ID:	HR-05-011118-B	SDG No.:	LB92586
Lab Sample ID:	J1011-13	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	-0.004	U	1	0.025		0.05	mg/Kg	01/12/2018	01/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/11/2018 12:00:00 AM
Project:	LB92586	Date Received:	1/11/2018 12:00:00 AM
Client Sample ID:	HR-05-011118-C	SDG No.:	LB92586
Lab Sample ID:	J1011-15	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	-0.0034	U	1	0.025		0.05	mg/Kg	01/12/2018	01/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/11/2018 12:00:00 AM
Project:	LB92586	Date Received:	1/11/2018 12:00:00 AM
Client Sample ID:	CL-02-011118-A	SDG No.:	LB92586
Lab Sample ID:	J1015-02	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	-0.004	U	1	0.025		0.05	mg/Kg	01/12/2018	01/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/11/2018 12:00:00 AM
Project:	LB92586	Date Received:	1/11/2018 12:00:00 AM
Client Sample ID:	CL-02-011118-B	SDG No.:	LB92586
Lab Sample ID:	J1015-04	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	-0.0029	U	1	0.025		0.05	mg/Kg	01/12/2018	01/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/11/2018 12:00:00 AM
Project:	LB92586	Date Received:	1/11/2018 12:00:00 AM
Client Sample ID:	CL-02-011118-C	SDG No.:	LB92586
Lab Sample ID:	J1015-06	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	-0.0013	U	1	0.025		0.05	mg/Kg	01/12/2018	01/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/11/2018 12:00:00 AM
Project:	LB92586	Date Received:	1/11/2018 12:00:00 AM
Client Sample ID:	CL-02-011118-D	SDG No.:	LB92586
Lab Sample ID:	J1015-08	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	-0.0034	U	1	0.025		0.05	mg/Kg	01/12/2018	01/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/11/2018 12:00:00 AM
Project:	LB92586	Date Received:	1/11/2018 12:00:00 AM
Client Sample ID:	OR-02-011118	SDG No.:	LB92586
Lab Sample ID:	J1018-04	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	-0.003	U	1	0.025		0.05	mg/Kg	01/12/2018	01/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/9/2018 12:00:00 AM
Project:	LB92586	Date Received:	1/11/2018 12:00:00 AM
Client Sample ID:	OWS-1	SDG No.:	LB92586
Lab Sample ID:	J1098-01	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	-0.00014	U	1	0.025		0.05	mg/Kg	01/12/2018	01/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/9/2018 12:00:00 AM
Project:	LB92586	Date Received:	1/11/2018 12:00:00 AM
Client Sample ID:	OWS-2	SDG No.:	LB92586
Lab Sample ID:	J1098-02	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	-0.0032	U	1	0.025		0.05	mg/Kg	01/12/2018	01/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/9/2018 12:00:00 AM
Project:	LB92586	Date Received:	1/11/2018 12:00:00 AM
Client Sample ID:	OWS-3	SDG No.:	LB92586
Lab Sample ID:	J1098-03	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	-0.0029	U	1	0.025		0.05	mg/Kg	01/12/2018	01/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/9/2018 12:00:00 AM
Project:	LB92586	Date Received:	1/11/2018 12:00:00 AM
Client Sample ID:	OWS-4	SDG No.:	LB92586
Lab Sample ID:	J1098-04	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	0.0028	U	1	0.025		0.05	mg/Kg	01/12/2018	01/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/10/2018 12:00:00 AM
Project:	LB92586	Date Received:	1/11/2018 12:00:00 AM
Client Sample ID:	OWS-1	SDG No.:	LB92586
Lab Sample ID:	J1100-01	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	-0.0033	U	1	0.025		0.05	mg/Kg	01/12/2018	01/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/11/2018 12:00:00 AM
Project:	LB92586	Date Received:	1/11/2018 12:00:00 AM
Client Sample ID:	WASTE-CLASS-2	SDG No.:	LB92586
Lab Sample ID:	J1107-02	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	-0.00075	U	1	0.025		0.05	mg/Kg	01/12/2018	01/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/11/2018 12:00:00 AM
Project:	LB92586	Date Received:	1/11/2018 12:00:00 AM
Client Sample ID:	WASTE-CLASS-2	SDG No.:	LB92586
Lab Sample ID:	J1107-02	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB92586

SDG No.: LB92586

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
PB105607BL	Reactive Cyanide	SOLID 0.002	<0.05	Batch Number: U		PB105607 0.05		Prep Date: 01/12/2018	01/12/2018 13:19	LB92586

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92586 **Level:** LOW **SDG No.:** LB92586
Contract: **Lab Code:** CHEM **Case No.:** LB92586 **SAS No.:** LB92586
Matrix: Solid **Sample ID:** J1010-02 **Client ID:** BU-02-011118DUP
Percent Solids for Sample: 100 **Duplicate ID** J1010-02DUP **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	-0.004	U			