



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87257

SDG No.: LB87257

Contract: _____ Lab Code: CHEM

Case No.: LB87257 SAS No.: LB87257

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	0.092	0.099	92.9	0	85 - 115		05/04/2017	15:37	LB87257



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Client: LB87257

SDG No.: LB87257

Contract: _____ Lab Code: CHEM

Case No.: LB87257

SAS No.: LB87257

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		05/04/2017	15:37	LB87257
CCV2	Reactive Cyanide	0.24	0.25	96	0	90 - 110		05/04/2017	15:44	LB87257
CCV3	Reactive Cyanide	0.26	0.25	104	0	90 - 110		05/04/2017	16:07	LB87257



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87257

SDG No.: LB87257

Contract:

Lab Code: CHEM

Case No.: LB87257

SAS No.: LB87257

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00079	+/-0.005	U		0.005		05/04/2017	15:37	LB87257



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87257

SDG No.: LB87257

Contract:

Lab Code: CHEM

Case No.: LB87257

SAS No.: LB87257

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.001	+/-0.005	U		0.005		05/04/2017	15:37	LB87257
CCB2	Reactive Cyanide	0.00077	+/-0.005	U		0.005		05/04/2017	15:44	LB87257
CCB3	Reactive Cyanide	0.001	+/-0.005	U		0.005		05/04/2017	16:07	LB87257



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Client: LB87257

SDG No.: LB87257

Contract: Lab Code: CHEM

Case No.: LB87257

SAS No.: LB87257

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:	5/1/2017 12:00:00 AM
Project:	LB87257	Date Received:	5/2/2017 12:00:00 AM
Client Sample ID:	SB-01-COMP	SDG No.:	LB87257
Lab Sample ID:	I2947-21	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	05/04/2017	05/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/1/2017 12:00:00 AM
Project:	LB87257	Date Received:	5/2/2017 12:00:00 AM
Client Sample ID:	SB-02-COMP	SDG No.:	LB87257
Lab Sample ID:	I2947-22	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	-0.0038	U	1	0.025		0.05	mg/Kg	05/04/2017	05/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/2/2017 12:00:00 AM
Project:	LB87257	Date Received:	5/2/2017 12:00:00 AM
Client Sample ID:	SB-03-COMP	SDG No.:	LB87257
Lab Sample ID:	I2947-23	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	-0.0052	U	1	0.025		0.05	mg/Kg	05/04/2017	05/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/1/2017 12:00:00 AM
Project:	LB87257	Date Received:	5/2/2017 12:00:00 AM
Client Sample ID:	SB-04-COMP	SDG No.:	LB87257
Lab Sample ID:	I2947-24	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	-0.0024	U	1	0.025		0.05	mg/Kg	05/04/2017	05/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/1/2017 12:00:00 AM
Project:	LB87257	Date Received:	5/2/2017 12:00:00 AM
Client Sample ID:	SB-05-COMP	SDG No.:	LB87257
Lab Sample ID:	I2947-25	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	-0.0041	U	1	0.025		0.05	mg/Kg	05/04/2017	05/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/2/2017 12:00:00 AM
Project:	LB87257	Date Received:	5/2/2017 12:00:00 AM
Client Sample ID:	SB-06-COMP	SDG No.:	LB87257
Lab Sample ID:	I2947-26	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	-0.0043	U	1	0.025		0.05	mg/Kg	05/04/2017	05/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/2/2017 12:00:00 AM
Project:	LB87257	Date Received:	5/2/2017 12:00:00 AM
Client Sample ID:	SB-07-COMP	SDG No.:	LB87257
Lab Sample ID:	I2949-03	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	-0.0054	U	1	0.025		0.049	mg/Kg	05/04/2017	05/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/2/2017 12:00:00 AM
Project:	LB87257	Date Received:	5/2/2017 12:00:00 AM
Client Sample ID:	TP7-8-COMP	SDG No.:	LB87257
Lab Sample ID:	I2953-04	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	-0.0037	U	1	0.025		0.05	mg/Kg	05/04/2017	05/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/2/2017 12:00:00 AM
Project:	LB87257	Date Received:	5/2/2017 12:00:00 AM
Client Sample ID:	IP-TP(0-5)	SDG No.:	LB87257
Lab Sample ID:	I2956-03	Matrix:	Solid
Level (low/med):	low	% Solid:	93.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0016	U	1	0.025		0.05	mg/Kg	05/04/2017	05/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/2/2017 12:00:00 AM
Project:	LB87257	Date Received:	5/2/2017 12:00:00 AM
Client Sample ID:	CHERRY-ST-TP(0-5)	SDG No.:	LB87257
Lab Sample ID:	I2956-06	Matrix:	Solid
Level (low/med):	low	% Solid:	91.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00079	U	1	0.025		0.05	mg/Kg	05/04/2017	05/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/2/2017 12:00:00 AM
Project:	LB87257	Date Received:	5/2/2017 12:00:00 AM
Client Sample ID:	RT-3025	SDG No.:	LB87257
Lab Sample ID:	I2957-03	Matrix:	Solid
Level (low/med):	low	% Solid:	27.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0035	U	1	0.025		0.05	mg/Kg	05/04/2017	05/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/2/2017 12:00:00 AM
Project:	LB87257	Date Received:	5/2/2017 12:00:00 AM
Client Sample ID:	RT-2342	SDG No.:	LB87257
Lab Sample ID:	I2957-06	Matrix:	Solid
Level (low/med):	low	% Solid:	81.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0054	U	1	0.025		0.05	mg/Kg	05/04/2017	05/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/1/2017 12:00:00 AM
Project:	LB87257	Date Received:	5/3/2017 12:00:00 AM
Client Sample ID:	TP4-5COMP	SDG No.:	LB87257
Lab Sample ID:	I2969-02	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	-0.0048	U	1	0.025		0.049	mg/Kg	05/04/2017	05/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2017 12:00:00 AM
Project:	LB87257	Date Received:	5/3/2017 12:00:00 AM
Client Sample ID:	TP1-COMP	SDG No.:	LB87257
Lab Sample ID:	I2969-12	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	05/04/2017	05/04/2017	9012B



Report of Analysis

Client:		Date Collected:	5/3/2017 12:00:00 AM
Project:	LB87257	Date Received:	5/3/2017 12:00:00 AM
Client Sample ID:	TP1-COMP	SDG No.:	LB87257
Lab Sample ID:	I2969-12	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: LB87257

SDG No.: LB87257

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
PB98699BL	Reactive Cyanide	SOLID 0.0027	<0.05	Batch Number: U		PB98699 0.05		Prep Date: 05/04/2017	05/04/2017 15:37	LB87257

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DUPLICATE SAMPLE SUMMARY

Client: LB87257 **Level:** LOW **SDG No.:** LB87257
Contract: **Lab Code:** CHEM **Case No.:** LB87257 **SAS No.:** LB87257
Matrix: Solid **Sample ID:** I2947-21 **Client ID:** SB-01-COMPDUP
Percent Solids for Sample: 100 **Duplicate ID** I2947-21DUP **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	-0.00077	U			