



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87219

SDG No.: LB87219

Contract: _____ Lab Code: CHEM

Case No.: LB87219 SAS No.: LB87219

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	0.091	0.099	91.9	0	85 - 115		05/03/2017	11:19	LB87219



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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87219

SDG No.: LB87219

Contract: _____ Lab Code: CHEM

Case No.: LB87219

SAS No.: LB87219

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		05/03/2017	11:19	LB87219
CCV2	Reactive Cyanide	0.25	0.25	100	0	90 - 110		05/03/2017	11:19	LB87219



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87219

SDG No.: LB87219

Contract:

Lab Code: CHEM

Case No.: LB87219

SAS No.: LB87219

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.0015	+/-0.005	U		0.005		05/03/2017	11:19	LB87219



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87219

SDG No.: LB87219

Contract:

Lab Code: CHEM

Case No.: LB87219

SAS No.: LB87219

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.0015	+/-0.005	U		0.005		05/03/2017	11:19	LB87219
CCB2	Reactive Cyanide	0.0013	+/-0.005	U		0.005		05/03/2017	11:21	LB87219



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87219

SDG No.: LB87219

Contract: Lab Code: CHEM

Case No.: LB87219

SAS No.: LB87219

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:	LB87219	Date Received:	5/1/2017 12:00:00 AM
Client Sample ID:	TP2-COMP(1-10FT)	SDG No.:	LB87219
Lab Sample ID:	I2936-06	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	0.0012	U	1	0.025		0.049	mg/Kg	05/02/2017	05/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/1/2017 12:00:00 AM
Project:	LB87219	Date Received:	5/1/2017 12:00:00 AM
Client Sample ID:	TP3-COMP(0.5-4.5FT)	SDG No.:	LB87219
Lab Sample ID:	I2936-12	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	0.0015	U	1	0.025		0.05	mg/Kg	05/02/2017	05/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/1/2017 12:00:00 AM
Project:	LB87219	Date Received:	5/1/2017 12:00:00 AM
Client Sample ID:	TP6-COMP(0.5-5FT)	SDG No.:	LB87219
Lab Sample ID:	I2936-18	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	05/02/2017	05/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/1/2017 12:00:00 AM
Project:	LB87219	Date Received:	5/1/2017 12:00:00 AM
Client Sample ID:	5040-COMP	SDG No.:	LB87219
Lab Sample ID:	I2940-03	Matrix:	Solid
Level (low/med):	low	% Solid:	82.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0039	U	1	0.025		0.049	mg/Kg	05/02/2017	05/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/1/2017 12:00:00 AM
Project:	LB87219	Date Received:	5/1/2017 12:00:00 AM
Client Sample ID:	5040-COMP	SDG No.:	LB87219
Lab Sample ID:	I2940-03	Matrix:	Solid
Level (low/med):	low	% Solid:	82.5

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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PREPARATION BLANK SUMMARY

Client: LB87219

SDG No.: LB87219

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
PB98642BL	Reactive Cyanide	SOLID 0.01	<0.05	Batch Number: U		PB98642 0.05		Prep Date: 05/03/2017	05/02/2017 11:19	LB87219

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DUPLICATE SAMPLE SUMMARY

Client: LB87219 **Level:** LOW **SDG No.:** LB87219
Contract: **Lab Code:** CHEM **Case No.:** LB87219 **SAS No.:** LB87219
Matrix: Solid **Sample ID:** I2936-06 **Client ID:** TP2-COMP(1-10FT)DUP
Percent Solids for Sample: 100 **Duplicate ID** I2936-06DUP **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	-0.0005	U			