



GENCHEM

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86658

SDG No.: LB86658

Contract: _____ **Lab Code:** CHEM

Case No.: LB86658

SAS No.: LB86658

Initial Calibration Source:

Continuing Calibration Source: _____

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
CCV1	Cyanide	0.24	0.25	96	0	90 - 110		03/31/2017	11:39	LB86658
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		03/31/2017	12:14	LB86658
CCV3	Cyanide	0.26	0.25	104	0	90 - 110		03/31/2017	12:14	LB86658



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86658

SDG No.: LB86658

Contract:

Lab Code: CHEM

Case No.: LB86658

SAS No.: LB86658

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00097	+/-0.005	U		0.005		03/31/2017	11:39	LB86658



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86658

SDG No.: LB86658

Contract:

Lab Code: CHEM

Case No.: LB86658

SAS No.: LB86658

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00054	+/-0.005	U		0.005		03/31/2017	11:39	LB86658
CCB2	Cyanide	-0.0002	+/-0.005	U		0.005		03/31/2017	12:14	LB86658
CCB3	Cyanide	-0.00034	+/-0.005	U		0.005		03/31/2017	12:14	LB86658



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86658

SDG No.: LB86658

Contract: Lab Code: CHEM

Case No.: LB86658

SAS No.: LB86658

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:	
Project:	LB86658	Date Received:	
Client Sample ID:	HIGHPB97937	SDG No.:	LB86658
Lab Sample ID:	HIGHPB97937	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.5		1	0.003		0.005	mg/L		03/31/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/29/2017 12:00:00 AM
Project:	LB86658	Date Received:	3/29/2017 12:00:00 AM
Client Sample ID:	S-1	SDG No.:	LB86658
Lab Sample ID:	I2457-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0057	U	1	0.035		0.27	mg/Kg	03/30/2017	03/31/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB86658	Date Received:	
Client Sample ID:	LOWPB97937	SDG No.:	LB86658
Lab Sample ID:	LOWPB97937	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0098		1	0.003		0.005	mg/L		03/31/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB86658	Date Received:	
Client Sample ID:	LOWPB97937	SDG No.:	LB86658
Lab Sample ID:	LOWPB97937	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



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PREPARATION BLANK SUMMARY

Client: LB86658

SDG No.: LB86658

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
PB97937BL		SOLID		Batch Number:		PB97937		Prep Date:	03/30/2017	
	Cyanide	-0.032	<0.25	U		0.25		03/31/2017	11:39	LB86658



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MATRIX SPIKE SUMMARY

client: LB86658 level: low sdg no.: LB86658
contract: lab code: CHEM case no.: LB86658 sas no.: LB86658
matrix: Solid sample id: I2457-01 client id: S-1MS
Percent Solids for Sample: 90.5 Spiked ID: I2457-01MS Percent Solids for Spike Sample: 90.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.4		0.035	U	2.2	63.6	*	

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MATRIX SPIKE DUPLICATE SUMMARY

client: LB86658 level: low sdg no.: LB86658
contract: lab code: CHEM case no.: LB86658 sas no.: LB86658
matrix: Solid sample id: I2457-01 client id: S-1MSD
Percent Solids for Sample: 90.5 Spiked ID: I2457-01MSD Percent Solids for Spike Sample: 90.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.4		0.035	U	2.1	66.7	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB86658 **Level:** LOW **SDG No.:** LB86658
Contract: **Lab Code:** CHEM **Case No.:** LB86658 **SAS No.:** LB86658
Matrix: Solid **Sample ID:** I2457-01 **Client ID:** S-1DUP
Percent Solids for Sample: 90.5 **Duplicate ID** I2457-01DUP **Percent Solids for Spike Sample:** 90.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.035	U	-0.04	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB86658 Level: LOW SDG No.: LB86658
Contract: _____ Lab Code: CHEM Case No.: LB86658 SAS No.: LB86658
Matrix: Solid Sample ID: I2457-01MS Client ID: S-1MSD
Percent Solids for Sample: 90.5 Duplicate ID I2457-01MSD Percent Solids for Spike Sample: 90.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.4		1.4		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86658

SDG No.: LB86658

Contract:

Lab Code: CHEM

Case No.: LB86658

SAS No.: LB86658

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB97937BS Cyanide	mg/Kg	5	5		100	85 - 115	