



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87254

SDG No.: LB87254

Contract: _____ Lab Code: CHEM

Case No.: LB87254

SAS No.: LB87254

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	Cyanide	0.24	0.25	96	0	90 - 110		05/04/2017	14:17	LB87254
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		05/04/2017	14:43	LB87254
CCV3	Cyanide	0.26	0.25	104	0	90 - 110		05/04/2017	15:02	LB87254



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87254

SDG No.: LB87254

Contract:

Lab Code: CHEM

Case No.: LB87254

SAS No.: LB87254

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00078	+/-0.005	U		0.005		05/04/2017	14:17	LB87254



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87254

SDG No.: LB87254

Contract:

Lab Code: CHEM

Case No.: LB87254

SAS No.: LB87254

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00084	+/-0.005	U		0.005		05/04/2017	14:17	LB87254
CCB2	Cyanide	0.00078	+/-0.005	U		0.005		05/04/2017	14:43	LB87254
CCB3	Cyanide	0.00087	+/-0.005	U		0.005		05/04/2017	15:02	LB87254



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	LB87254	SDG No.:	LB87254				
Contract:		Lab Code:	CHEM	Case No.:	LB87254	SAS No.:	LB87254

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:	LB87254	Date Received:	
Client Sample ID:	HIGHPB98677	SDG No.:	LB87254
Lab Sample ID:	HIGHPB98677	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	OR	1	0.003		0.005	mg/L		05/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/2/2017 12:00:00 AM
Project:	LB87254	Date Received:	5/2/2017 12:00:00 AM
Client Sample ID:	TP7-8-COMP	SDG No.:	LB87254
Lab Sample ID:	I2953-03	Matrix:	Solid
Level (low/med):	low	% Solid:	77.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.21	J	1	0.036		0.27	mg/Kg	05/03/2017	05/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/2/2017 12:00:00 AM
Project:	LB87254	Date Received:	5/2/2017 12:00:00 AM
Client Sample ID:	IP-TP(0-5)	SDG No.:	LB87254
Lab Sample ID:	I2956-01	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.
57-12-5	Cyanide	-0.016	U	1	0.03		0.23	mg/Kg	05/03/2017	05/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/2/2017 12:00:00 AM
Project:	LB87254	Date Received:	5/2/2017 12:00:00 AM
Client Sample ID:	CHERRY-ST-TP(0-5)	SDG No.:	LB87254
Lab Sample ID:	I2956-04	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.
57-12-5	Cyanide	0.0019	U	1	0.03		0.23	mg/Kg	05/03/2017	05/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/2/2017 12:00:00 AM
Project:	LB87254	Date Received:	5/2/2017 12:00:00 AM
Client Sample ID:	RT-3025	SDG No.:	LB87254
Lab Sample ID:	I2957-01	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.
57-12-5	Cyanide	-0.085	U	1	0.11		0.84	mg/Kg	05/03/2017	05/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/2/2017 12:00:00 AM
Project:	LB87254	Date Received:	5/2/2017 12:00:00 AM
Client Sample ID:	RT-2342	SDG No.:	LB87254
Lab Sample ID:	I2957-04	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.
57-12-5	Cyanide	-0.038	U	1	0.037		0.28	mg/Kg	05/03/2017	05/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB87254	Date Received:	
Client Sample ID:	LOWPB98677	SDG No.:	LB87254
Lab Sample ID:	LOWPB98677	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	0.0097		1	0.003		0.005	mg/L		05/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB87254	Date Received:	
Client Sample ID:	LOWPB98677	SDG No.:	LB87254
Lab Sample ID:	LOWPB98677	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



GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB87254

SDG No.: LB87254

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
PB98677BL		SOLID		Batch Number:		PB98677		Prep Date:	05/03/2017	
	Cyanide	0.025	<0.25	U		0.25		05/04/2017	14:17	LB87254



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB87254 level: low sdg no.: LB87254
contract: lab code: CHEM case no.: LB87254 sas no.: LB87254
matrix: Solid sample id: I2953-03 client id: TP7-8-COMPMS
Percent Solids for Sample: 77.7 Spiked ID: I2953-03MS Percent Solids for Spike Sample: 77.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	0.89		0.21	J	2.2	31	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB87254 level: low sdg no.: LB87254
contract: lab code: CHEM case no.: LB87254 sas no.: LB87254
matrix: Solid sample id: I2953-03 client id: TP7-8-COMPMSD
Percent Solids for Sample: 77.7 Spiked ID: I2953-03MSD Percent Solids for Spike Sample: 77.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	0.91		0.21	J	2.2	32	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB87254 **Level:** LOW **SDG No.:** LB87254
Contract: **Lab Code:** CHEM **Case No.:** LB87254 **SAS No.:** LB87254
Matrix: Solid **Sample ID:** I2953-03 **Client ID:** TP7-8-COMPDUP
Percent Solids for Sample: 77.7 **Duplicate ID** I2953-03DUP **Percent Solids for Spike Sample:** 77.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.21	J	0.21	J	0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB87254 **Level:** LOW **SDG No.:** LB87254
Contract: **Lab Code:** CHEM **Case No.:** LB87254 **SAS No.:** LB87254
Matrix: Solid **Sample ID:** I2953-03MS **Client ID:** TP7-8-COMPMSD
Percent Solids for Sample: 77.7 **Duplicate ID** I2953-03MSD **Percent Solids for Spike Sample:** 77.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.89		0.91		2		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87254

SDG No.: LB87254

Contract:

Lab Code: CHEM

Case No.: LB87254

SAS No.: LB87254

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB98677BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	