

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Cyanide	0.093	0.099	93.9	0	85 - 115		03/03/2017	14:21	LB86149



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86149

SDG No.: LB86149

Contract: _____ Lab Code: CHEM

Case No.: LB86149

SAS No.: LB86149

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		03/03/2017	14:21	LB86149
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		03/03/2017	14:28	LB86149
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		03/03/2017	14:35	LB86149



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86149 **SDG No.:** LB86149
Contract: **Lab Code:** CHEM **Case No.:** LB86149 **SAS No.:** LB86149

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00076	+/-0.005	U		0.005		03/03/2017	14:21	LB86149



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86149

SDG No.: LB86149

Contract:

Lab Code: CHEM

Case No.: LB86149

SAS No.: LB86149

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.0000366	+/-0.005	U		0.005		03/03/2017	14:21	LB86149
CCB2	Cyanide	-0.00088	+/-0.005	U		0.005		03/03/2017	14:28	LB86149
CCB3	Cyanide	-0.00075	+/-0.005	U		0.005		03/03/2017	14:35	LB86149



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86149

SDG No.: LB86149

Contract: Lab Code: CHEM

Case No.: LB86149

SAS No.: LB86149

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:	LB86149	Date Received:	
Client Sample ID:	HIGHPB97321	SDG No.:	LB86149
Lab Sample ID:	HIGHPB97321	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	0.49		1	0.003		0.005	mg/L		03/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2017 12:00:00 AM
Project:	LB86149	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	C-1	SDG No.:	LB86149
Lab Sample ID:	I2078-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.036		0.27	mg/Kg	03/03/2017	03/03/2017	9012B

Report of Analysis

Client:		Date Collected:	3/1/2017 12:00:00 AM
Project:	LB86149	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	C-2	SDG No.:	LB86149
Lab Sample ID:	I2078-03	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	0.0025	U	1	0.035		0.26	mg/Kg	03/03/2017	03/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2017 12:00:00 AM
Project:	LB86149	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	C-3	SDG No.:	LB86149
Lab Sample ID:	I2078-05	Matrix:	Solid
Level (low/med):	low	% Solid:	90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.23	J	1	0.036		0.28	mg/Kg	03/03/2017	03/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2017 12:00:00 AM
Project:	LB86149	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	C-4	SDG No.:	LB86149
Lab Sample ID:	I2078-07	Matrix:	Solid
Level (low/med):	low	% Solid:	91.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.036		0.27	mg/Kg	03/03/2017	03/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2017 12:00:00 AM
Project:	LB86149	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	C-5	SDG No.:	LB86149
Lab Sample ID:	I2078-09	Matrix:	Solid
Level (low/med):	low	% Solid:	91.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	J	1	0.035		0.27	mg/Kg	03/03/2017	03/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2017 12:00:00 AM
Project:	LB86149	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	C-6	SDG No.:	LB86149
Lab Sample ID:	I2078-11	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	-0.0076	U	1	0.035		0.27	mg/Kg	03/03/2017	03/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2017 12:00:00 AM
Project:	LB86149	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	C-7	SDG No.:	LB86149
Lab Sample ID:	I2078-13	Matrix:	Solid
Level (low/med):	low	% Solid:	90.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.039	J	1	0.035		0.27	mg/Kg	03/03/2017	03/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2017 12:00:00 AM
Project:	LB86149	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	C-8	SDG No.:	LB86149
Lab Sample ID:	I2078-15	Matrix:	Solid
Level (low/med):	low	% Solid:	90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.14	J	1	0.036		0.27	mg/Kg	03/03/2017	03/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/2/2017 12:00:00 AM
Project:	LB86149	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	FK-BPM-02-002-ABCD	SDG No.:	LB86149
Lab Sample ID:	I2087-01	Matrix:	Solid
Level (low/med):	low	% Solid:	95.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.044	U	1	0.032		0.24	mg/Kg	03/03/2017	03/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/2/2017 12:00:00 AM
Project:	LB86149	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	FK-GF-02-004-A	SDG No.:	LB86149
Lab Sample ID:	I2088-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.047	U	1	0.034		0.25	mg/Kg	03/03/2017	03/03/2017	9012B

Report of Analysis

Client:		Date Collected:	3/2/2017 12:00:00 AM
Project:	LB86149	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	FK-GF-02-004-B	SDG No.:	LB86149
Lab Sample ID:	I2088-03	Matrix:	Solid
Level (low/med):	low	% Solid:	93.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.048	U	1	0.035		0.26	mg/Kg	03/03/2017	03/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB86149	Date Received:	
Client Sample ID:	LOWPB97321	SDG No.:	LB86149
Lab Sample ID:	LOWPB97321	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		03/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB86149	Date Received:	
Client Sample ID:	LOWPB97321	SDG No.:	LB86149
Lab Sample ID:	LOWPB97321	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: LB86149

SDG No.: LB86149

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
PB97321BL	Cyanide	SOLID -0.0086	<0.25	Batch Number: U		PB97321 0.25		Prep Date: 03/03/2017	03/03/2017 14:21	LB86149



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB86149 level: low sdg no.: LB86149
contract: lab code: CHEM case no.: LB86149 sas no.: LB86149
matrix: Solid sample id: I2078-01 client id: C-1MS
Percent Solids for Sample: 90.7 Spiked ID: I2078-01MS Percent Solids for Spike Sample: 90.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.16	J	2.2	88		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB86149 level: low sdg no.: LB86149
contract: lab code: CHEM case no.: LB86149 sas no.: LB86149
matrix: Solid sample id: I2078-01 client id: C-1MSD
Percent Solids for Sample: 90.7 Spiked ID: I2078-01MSD Percent Solids for Spike Sample: 90.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.16	J	2.1	83		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB86149 **Level:** LOW **SDG No.:** LB86149
Contract: **Lab Code:** CHEM **Case No.:** LB86149 **SAS No.:** LB86149
Matrix: Solid **Sample ID:** I2078-01 **Client ID:** C-1DUP
Percent Solids for Sample: 90.7 **Duplicate ID** I2078-01DUP **Percent Solids for Spike Sample:** 90.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.16	J	0.14	J	13		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB86149 **Level:** LOW **SDG No.:** LB86149
Contract: **Lab Code:** CHEM **Case No.:** LB86149 **SAS No.:** LB86149
Matrix: Solid **Sample ID:** I2078-01MS **Client ID:** C-1MSD
Percent Solids for Sample: 90.7 **Duplicate ID** I2078-01MSD **Percent Solids for Spike Sample:** 90.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.1		1.9		10		

