

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Cyanide	0.095	0.099	96	0	85 - 115		04/06/2017	15:33	LB86741



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86741

SDG No.: LB86741

Contract: _____ Lab Code: CHEM

Case No.: LB86741

SAS No.: LB86741

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		04/06/2017	15:33	LB86741
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		04/06/2017	15:40	LB86741
CCV3	Cyanide	0.26	0.25	104	0	90 - 110		04/06/2017	15:45	LB86741



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86741

SDG No.: LB86741

Contract:

Lab Code: CHEM

Case No.: LB86741

SAS No.: LB86741

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00075	+/-0.005	U		0.005		04/06/2017	15:33	LB86741



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86741

SDG No.: LB86741

Contract:

Lab Code: CHEM

Case No.: LB86741

SAS No.: LB86741

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00044	+/-0.005	U		0.005		04/06/2017	15:33	LB86741
CCB2	Cyanide	0.00069	+/-0.005	U		0.005		04/06/2017	15:40	LB86741
CCB3	Cyanide	0.00076	+/-0.005	U		0.005		04/06/2017	15:45	LB86741



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86741

SDG No.: LB86741

Contract: Lab Code: CHEM

Case No.: LB86741

SAS No.: LB86741

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:	LB86741	Date Received:	
Client Sample ID:	HIGHPB98106	SDG No.:	LB86741
Lab Sample ID:	HIGHPB98106	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		04/06/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/3/2017 12:00:00 AM
Project:	LB86741	Date Received:	4/4/2017 12:00:00 AM
Client Sample ID:	TS-3	SDG No.:	LB86741
Lab Sample ID:	I2528-02	Matrix:	Solid
Level (low/med):	low	% Solid:	82.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.27	J	1	0.039		0.29	mg/Kg	04/06/2017	04/06/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/3/2017 12:00:00 AM
Project:	LB86741	Date Received:	4/4/2017 12:00:00 AM
Client Sample ID:	TS-5	SDG No.:	LB86741
Lab Sample ID:	I2528-04	Matrix:	Solid
Level (low/med):	low	% Solid:	80.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.48		1	0.039		0.3	mg/Kg	04/06/2017	04/06/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/3/2017 12:00:00 AM
Project:	LB86741	Date Received:	4/4/2017 12:00:00 AM
Client Sample ID:	TS-6	SDG No.:	LB86741
Lab Sample ID:	I2528-05	Matrix:	Solid
Level (low/med):	low	% Solid:	84.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.012	U	1	0.037		0.28	mg/Kg	04/06/2017	04/06/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/5/2017 12:00:00 AM
Project:	LB86741	Date Received:	4/5/2017 12:00:00 AM
Client Sample ID:	RT3456-275030	SDG No.:	LB86741
Lab Sample ID:	I2569-01	Matrix:	Solid
Level (low/med):	low	% Solid:	85.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.049	J	1	0.037		0.28	mg/Kg	04/06/2017	04/06/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/5/2017 12:00:00 AM
Project:	LB86741	Date Received:	4/5/2017 12:00:00 AM
Client Sample ID:	DUNCAN-AVE	SDG No.:	LB86741
Lab Sample ID:	I2571-01	Matrix:	Solid
Level (low/med):	low	% Solid:	86.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.35		1	0.037		0.28	mg/Kg	04/06/2017	04/06/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/5/2017 12:00:00 AM
Project:	LB86741	Date Received:	4/5/2017 12:00:00 AM
Client Sample ID:	15-41	SDG No.:	LB86741
Lab Sample ID:	I2572-01	Matrix:	Solid
Level (low/med):	low	% Solid:	78.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.056	J	1	0.04		0.31	mg/Kg	04/06/2017	04/06/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/5/2017 12:00:00 AM
Project:	LB86741	Date Received:	4/5/2017 12:00:00 AM
Client Sample ID:	RT-2891	SDG No.:	LB86741
Lab Sample ID:	I2572-04	Matrix:	Solid
Level (low/med):	low	% Solid:	21.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.095	U	1	0.15		1.1	mg/Kg	04/06/2017	04/06/2017	9012B

Report of Analysis

Client:		Date Collected:	4/5/2017 12:00:00 AM
Project:	LB86741	Date Received:	4/5/2017 12:00:00 AM
Client Sample ID:	RT-3460	SDG No.:	LB86741
Lab Sample ID:	I2572-07	Matrix:	Solid
Level (low/med):	low	% Solid:	78.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.13	J	1	0.041		0.31	mg/Kg	04/06/2017	04/06/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB86741	Date Received:	
Client Sample ID:	LOWPB98106	SDG No.:	LB86741
Lab Sample ID:	LOWPB98106	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	0.011		1	0.003		0.005	mg/L		04/06/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB86741	Date Received:	
Client Sample ID:	LOWPB98106	SDG No.:	LB86741
Lab Sample ID:	LOWPB98106	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: LB86741

SDG No.: LB86741

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
PB98106BL	Cyanide	SOLID 0.026	<0.25	Batch Number: U		PB98106 0.25		Prep Date: 04/06/2017	04/06/2017 15:33	LB86741



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB86741 level: low sdg no.: LB86741
contract: lab code: CHEM case no.: LB86741 sas no.: LB86741
matrix: Solid sample id: I2528-02 client id: TS-3MS
Percent Solids for Sample: 82.4 Spiked ID: I2528-02MS Percent Solids for Spike Sample: 82.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.3		0.27	J	2.4	85		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB86741 level: low sdg no.: LB86741
contract: lab code: CHEM case no.: LB86741 sas no.: LB86741
matrix: Solid sample id: I2528-02 client id: TS-3MSD
Percent Solids for Sample: 82.4 Spiked ID: I2528-02MSD Percent Solids for Spike Sample: 82.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.3		0.27	J	2.3	88		

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DUPLICATE SAMPLE SUMMARY

Client: LB86741 Level: LOW SDG No.: LB86741
Contract: _____ Lab Code: CHEM Case No.: LB86741 SAS No.: LB86741
Matrix: Solid Sample ID: I2528-02 Client ID: TS-3DUP
Percent Solids for Sample: 82.4 Duplicate ID I2528-02DUP Percent Solids for Spike Sample: 82.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.27	J	0.26	J	4		

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DUPLICATE SAMPLE SUMMARY

Client: LB86741 **Level:** LOW **SDG No.:** LB86741
Contract: **Lab Code:** CHEM **Case No.:** LB86741 **SAS No.:** LB86741
Matrix: Solid **Sample ID:** I2528-02MS **Client ID:** TS-3MSD
Percent Solids for Sample: 82.4 **Duplicate ID** I2528-02MSD **Percent Solids for Spike Sample:** 82.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.3		2.3		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86741

SDG No.: LB86741

Contract:

Lab Code: CHEM

Case No.: LB86741

SAS No.: LB86741

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB98106BS Cyanide	mg/Kg	5	5		100	85 - 115	