



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86030

SDG No.: LB86030

Contract: _____ **Lab Code:** CHEM

Case No.: LB86030

SAS No.: LB86030

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	Cyanide	0.096	0.099	97	0	85 - 115		02/24/2017	13:58	LB86030

Metals**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB86030**SDG No.:** LB86030**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB86030**SAS No.:** LB86030**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		02/24/2017	13:58	LB86030
CCV2	Cyanide	0.26	0.25	104	0	90 - 110		02/24/2017	14:43	LB86030



Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86030

SDG No.: LB86030

Contract:

Lab Code: CHEM

Case No.: LB86030

SAS No.: LB86030

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00082	+/-0.005	U		0.005		02/24/2017	13:58	LB86030



Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86030

SDG No.: LB86030

Contract:

Lab Code: CHEM

Case No.: LB86030

SAS No.: LB86030

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00068	+/-0.005	U		0.005		02/24/2017	13:58	LB86030
CCB2	Cyanide	0.00029	+/-0.005	U		0.005		02/24/2017	14:43	LB86030



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86030

SDG No.: LB86030

Contract: Lab Code: CHEM

Case No.: LB86030

SAS No.: LB86030

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:	2/23/2017 12:00:00 AM
Project:	LB86030	Date Received:	2/23/2017 12:00:00 AM
Client Sample ID:	EFFLUENTDAY1-1-4CN	SDG No.:	LB86030
Lab Sample ID:	I1965-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.00062	U	1	0.001		0.005	mg/L	02/24/2017	02/24/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB86030	Date Received:	
Client Sample ID:	MIDPB97172	SDG No.:	LB86030
Lab Sample ID:	MIDPB97172	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.25		1	0.001		0.005	mg/L		02/24/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB86030	Date Received:	
Client Sample ID:	MIDPB97172	SDG No.:	LB86030
Lab Sample ID:	MIDPB97172	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



Metals
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PREPARATION BLANK SUMMARY

Client: LB86030

SDG No.: LB86030

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB97172BL	Cyanide	0.00057	<0.005	U		0.005		02/24/2017	13:58	LB86030



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MATRIX SPIKE SUMMARY

client: LB86030 level: low sdg no.: LB86030
contract: lab code: CHEM case no.: LB86030 sas no.: LB86030
matrix: WATER sample id: I1965-01 client id: EFFLUENTDAY1-1-4CNMS
Percent Solids for Sample: 0 Spiked ID: I1965-01MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.031		0.001	U	0.04	77.5		



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MATRIX SPIKE DUPLICATE SUMMARY

client: LB86030 level: low sdg no.: LB86030
contract: lab code: CHEM case no.: LB86030 sas no.: LB86030
matrix: WATER sample id: I1965-01 client id: EFFLUENTDAY1-1-4CNMSD
Percent Solids for Sample: 0 Spiked ID: I1965-01MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.031		0.001	U	0.04	77.5		



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DUPLICATE SAMPLE SUMMARY

Client: LB86030 Level: LOW SDG No.: LB86030
Contract: Lab Code: CHEM Case No.: LB86030 SAS No.: LB86030
Matrix: WATER Sample ID: I1965-01 Client ID: EFFLUENTDAY1-1-4CNDUP
Percent Solids for Sample: 0 Duplicate ID I1965-01DUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.001	U	8.38e-005	U			

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

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DUPLICATE SAMPLE SUMMARY

Client: LB86030 **Level:** LOW **SDG No.:** LB86030
Contract: **Lab Code:** CHEM **Case No.:** LB86030 **SAS No.:** LB86030
Matrix: WATER **Sample ID:** I1965-01MS **Client ID:** EFFLUENTDAY1-1-4CNMSD
Percent Solids for Sample: 0 **Duplicate ID** I1965-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.031		0.031		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86030

SDG No.: LB86030

Contract:

Lab Code: CHEM

Case No.: LB86030

SAS No.: LB86030

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB97172BS Cyanide	mg/L	0.1	0.1		100	85 - 115	