





## GENCHEM

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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86795

SDG No.: LB86795

Contract: \_\_\_\_\_ Lab Code: CHEM

Case No.: LB86795

SAS No.: LB86795

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		04/10/2017	11:22	LB86795
CCV2	Cyanide	0.26	0.25	104	0	90 - 110		04/10/2017	11:59	LB86795



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**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** LB86795

**SDG No.:** LB86795

**Contract:**                     

**Lab Code:** CHEM

**Case No.:** LB86795

**SAS No.:** LB86795

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00068	+/-0.005	U		0.005		04/10/2017	11:22	LB86795



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### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB86795

SDG No.: LB86795

**Contract:**

Lab Code: CHEM

**Case No.:** LB86795

**SAS No.:** LB86795

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00041	+/-0.005	U		0.005		04/10/2017	11:22	LB86795
CCB2	Cyanide	-0.00077	+/-0.005	U		0.005		04/10/2017	11:59	LB86795



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	LB86795	SDG No.:	LB86795				
Contract:		Lab Code:	CHEM	Case No.:	LB86795	SAS No.:	LB86795

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:	LB86795	Date Received:	
Client Sample ID:	HIGHPB98136	SDG No.:	LB86795
Lab Sample ID:	HIGHPB98136	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	0.48		1	0.003		0.005	mg/L		04/10/2017	9012B



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## Report of Analysis

Client:		Date Collected:	4/6/2017 12:00:00 AM
Project:	LB86795	Date Received:	4/6/2017 12:00:00 AM
Client Sample ID:	GW-1	SDG No.:	LB86795
Lab Sample ID:	I2582-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0001	U	1	0.003		0.005	mg/L	04/07/2017	04/10/2017	9012B



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## Report of Analysis

Client:		Date Collected:	4/6/2017 12:00:00 AM
Project:	LB86795	Date Received:	4/6/2017 12:00:00 AM
Client Sample ID:	GW-2	SDG No.:	LB86795
Lab Sample ID:	I2582-04	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	0.0019	U	1	0.003		0.005	mg/L	04/07/2017	04/10/2017	9012B





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## Report of Analysis

Client:		Date Collected:	
Project:	LB86795	Date Received:	
Client Sample ID:	LOWPB98136	SDG No.:	LB86795
Lab Sample ID:	LOWPB98136	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	0.0094		1	0.003		0.005	mg/L		04/10/2017	9012B



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## Report of Analysis

Client:		Date Collected:	
Project:	LB86795	Date Received:	
Client Sample ID:	LOWPB98136	SDG No.:	LB86795
Lab Sample ID:	LOWPB98136	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: LB86795

SDG No.: LB86795

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
PB98136BL	Cyanide	-0.00061	<0.005	U		PB98136 0.005		Prep Date: 04/10/2017	04/07/2017 11:22	LB86795



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MATRIX SPIKE SUMMARY

client: LB86795 level: low sdg no.: LB86795  
contract: lab code: CHEM case no.: LB86795 sas no.: LB86795  
matrix: WATER sample id: I2582-01 client id: GW-1MS  
Percent Solids for Sample: 0 Spiked ID: I2582-01MS 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	0.029		0.003	U	0.04	72.5	*	



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MATRIX SPIKE DUPLICATE SUMMARY

client: LB86795 level: low sdg no.: LB86795  
contract: lab code: CHEM case no.: LB86795 sas no.: LB86795  
matrix: WATER sample id: I2582-01 client id: GW-1MSD  
Percent Solids for Sample: 0 Spiked ID: I2582-01MSD 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	0.029		0.003	U	0.04	72.5	*	



## GENCHEM

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### DUPLICATE SAMPLE SUMMARY

**Client:** LB86795 **Level:** LOW **SDG No.:** LB86795  
**Contract:**                      **Lab Code:** CHEM **Case No.:** LB86795 **SAS No.:** LB86795  
**Matrix:** WATER **Sample ID:** I2582-01 **Client ID:** GW-1DUP  
**Percent Solids for Sample:** 0 **Duplicate ID** I2582-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.003	U	-0.00048	U			



## GENCHEM

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### DUPLICATE SAMPLE SUMMARY

**Client:** LB86795 **Level:** LOW **SDG No.:** LB86795  
**Contract:**                      **Lab Code:** CHEM **Case No.:** LB86795 **SAS No.:** LB86795  
**Matrix:** WATER **Sample ID:** I2582-01MS **Client ID:** GW-1MSD  
**Percent Solids for Sample:** 0 **Duplicate ID** I2582-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.029		0.029		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86795

SDG No.: LB86795

Contract:

Lab Code: CHEM

Case No.: LB86795

SAS No.: LB86795

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB98136BS Cyanide	mg/L	0.1	0.096		96	85 - 115	