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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86538			SDG No.:	LB86538	
Contract:	Lab Code:	CHEM	Case No.:	LB86538	<b>SAS No.:</b> <u>LB86538</u>
Initial Calibration Source:					
Continuing Calibration Source:					

		Result mg/L	True Value	%	%	Acceptance		Analysis	Analysis	Run
Sample ID	Analyte			Recovery	RSD	Window (%R)	Μ	Date	Time	Number
ICV1	Cyanide	0.093	0.099	93.9	0	85 - 115		03/24/2017	13:15	LB86538



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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86538			SDG No.:	LB86538		
Contract:	Lab Code:	CHEM	Case No.:	LB86538	SAS No.: L	LB86538
Initial Calibration Source:						
Continuing Calibration Source:						

		Result mg/L	True Value	%	%	Acceptance		Analysis	Analysis	Run
Sample ID	Analyte			Recovery	RSD	Window (%R)	Μ	Date	Time	Number
CCV1	Cyanide	0.24	0.25	96	0	90 - 110		03/24/2017	13:15	LB86538
CCV2	Cyanide	0.26	0.25	104	0	90 - 110		03/24/2017	13:39	LB86538



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# INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: <u>I</u> Contract:	.B86538	Lab Code:	CHEM		SDG Case		6538 6538	SA	S No.: <u>LB</u>	86538
Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	М	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00054	+/-0.005	U		0.005		03/24/2017	13:15	LB86538



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### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86538					SD	<b>SDG No.:</b> LB86538							
Contract: Lab Code:		CHEM	CHEM Ca			Case No.: <u>LB86538</u>			SAS No.: <u>LB86538</u>				
Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	М	Analysis Date	Analysis Time	Run Number			
CCB1 CCB2	Cyanide Cyanide	0.00049 -0.0001	+/-0.005 +/-0.005	U U		0.005 0.005		03/24/2017 03/24/2017	13:15 13:39	LB86538 LB86538			



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### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Ll	B86538				SDG	No.:	LB86538			
Contract:		Lab Code:	CHEM		Case	No.:	LB86538	_	SAS No.: LB8	86538
Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Oual	LOD	CRO	L MI	Analysis Date	Analysis Time	Run Number



# **Report of Analysis**

Client:		Date Collected:	3/20/2017 12:00:00 AM
Project:	LB86538	Date Received:	3/21/2017 12:00:00 AM
Client Sample ID:	EFFLUENT-DAY1-1CN	SDG No.:	LB86538
Lab Sample ID:	12273-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0
Cas Parameter	Conc. Qua. DF MDL LO	D LOQ / CRQL Units Prep Date	Date Ana. Ana Met.

	Cyanide	0.0011	J	1	0.001	0.005	mg/L	03/23/2017	03/24/2017 SM4500-CN C,]
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# **Report of Analysis**

	Cyanide	0.24		1	0.001		0.005	mg/L	03/24/2017 SM4500-CN C.]
Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / C	RQL Units Prep Date	Date Ana. Ana Met.
Level (l	ow/med):	low						% Solid:	0
Lab Sar	nple ID:	MIDPB97772						Matrix:	WATER
Client S	Sample ID:	MIDPB97772						SDG No.:	LB86538
Project:		LB86538						Date Received:	
Client:								Date Collected:	



# **Report of Analysis**

Client:							Date Collected:		
Project:		LB86538					Date Received:		
Client Samp	ole ID:	MIDPB97772					SDG No.:	LB86538	
Lab Sample	ID:	MIDPB97772					Matrix:	WATER	
Level (low/1	med):	low					% Solid:	0	
Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL Units Prep	Date Date Ana.	Ana Met.

Color Before:	Clarity Before:	Texture:				
Color After:	Clarity After:	Artifacts:				
Comments:						
U = Not Detected		J = Estimated Value				
LOQ = Limit of Quantitation		B = Analyte Found in Associated Method Blank				
MDL = Method Detection Limit		* = indicates the duplicate analysis is not within control limits.				
LOD = Limit of Detection		E = Indicates the reported value is estimated because of the presence				
D = Dilution		of interference.				

Q = indicates LCS control criteria did not meet requirements

OR = Over Range

N =Spiked sample recovery not within control limits



# GENCHEM - 3b -PREPARATION BLANK SUMMARY

Client: LB86538

**SDG No.:** LB86538

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	М	Analysis Date	Analysis Time	Run
PB97772BL		WATER		Batch Nu	mber:	PB97772		Prep Date:	03/23/20	)17
	Cyanide	0.00079	< 0.005	U		0.005		03/24/2017	13:15	LB86538



### GENCHEM - 5a -MATRIX SPIKE SUMMARY

client:	LB86538		level:	low		sdg no.:	LB86538			
contract:			lab co	de: <u>CHE</u>	М	case no.:	LB86538	sa	s no.:	LB86538
matrix:	WATER		sample id:	12273-02		client id:	EFFLUENT-	DAY1-10	CNMS	
Percent Soli	ids for Sample:	0	Spiked ID:	I2273-02	MS	Percent Solid	ls for Spike Sa	mple:	0	
Percent Soli	ids for Sample:	0 Acceptance	Spiked ID: Spiked	12273-02 Sample	MS	Percent Solid Spike	ls for Spike Sa %	mple:	0	
Percent Soli Analyte	ids for Sample: Units	0 Acceptance Limit %R	<u>.</u>		MS C		•	ample: Qual	0 M	



### GENCHEM - 5a -MATRIX SPIKE DUPLICATE SUMMARY

client: LH	386538		level:	low		sdg no.:	LB86538		
contract:			lab co	ode: <u>CHE</u>	N	case no.:	LB86538	sas no.:	LB86538
matrix:	WATER		sample id:	: 12273-02		client id:	EFFLUENT-	DAY1-1CNMSD	
Percent Solid	s for Sample:	0	Spiked ID	· I2273-02	MSD	Percent Solid	ls for Spike Sa	mnle: 0	
					MOD	I treent Sond	is for spike ba	mpie. 0	
		Acceptance	MSD	Sample	ing b	Spike	%	шрс. 0	
Analyte	Units	Acceptance Limit %R	MSD Result	Sample C Result	С		<u> </u>	Qual M	



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### DUPLICATE SAMPLE SUMMARY

Client: LI	386538		Level: LO	W	SDG	No.:	LB86538		_		
Contract:		_	Lab Code:	CHEM	Case	No.:	LB86538	SA	AS No.:	LB86538	
Matrix:	WATER		Sample ID: 122	73-02	Client II	):	EFFLUENT-	DAY1-10	CNDUP		
Percent Solid	s for Sample:	0	Duplicate ID 122	73-02DUP	Percent S	Solids	for Spike Sa	mple:	0		
		Acceptance	Sample	~	Duplicate	G					
Analyte	Units	Acceptance Limit	Sample Result	С	Duplicate Result	С	RPD	Qual	М		

"A control limit of +20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"



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### DUPLICATE SAMPLE SUMMARY

Client: LE	386538		Level: LO	W	SDG	No.:	LB86538				
Contract:		_	Lab Code:	CHEM	Case	No.:	LB86538	S.	AS No.:	LB86538	
Matrix:	WATER		Sample ID: 122	273-02MS	Client II	):	EFFLUENT-	-DAY1-1	CNMSD		
Percent Solids	s for Sample:	0	Duplicate ID 122	273-02MSD	Percent	Solids	s for Spike Sa	ample:	0		
		Acceptance	Sample	_	Duplicate						
Analyte	Units	Limit	Result	С	Result	С	RPD	Qual	М		_
Cyanide	mg/L	20	0.034		0.034		0				

"A control limit of +20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"



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# LABORATORY CONTROL SAMPLE SUMMARY

Client: LB865	538				SDG No.:	LB86538		
Contract:			Lab Code:	CHEM	Case No.:	LB86538	SAS No.:	LB86538
					%	Accepta	ince	
Analyte	Units	True Value	Result	С	% Recovery	Accepta Limit		M
Analyte PB97772BS	Units	True Value	Result	C		-		М