

Daily Analysis Runlog For Sequence/QC Batch ID # LB95680

Review By		Review On				
SubDirectory		LB95680		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		wp64863,wp64864,wp64865,wp64866,wp64867,wp64868,wp64869,WP64870				
ICV Standard		W1542				
CCV Standard		WP64871				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64873,WP64695,WP64696				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/29/18 11:20		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/29/18 11:20		OK
3	10PPBCN	10PPBCN	CAL3	05/29/18 11:20		OK
4	50PPBCN	50PPBCN	CAL4	05/29/18 11:20		OK
5	100PPBCN	100PPBCN	CAL5	05/29/18 11:20		OK
6	250PPBCN	250PPBCN	CAL6	05/29/18 11:20		OK
7	500PPBCN	500PPBCN	CAL7	05/29/18 11:20		OK
8	ICV1	ICV1	ICV	05/29/18 14:59		OK
9	ICB1	ICB1	ICB	05/29/18 14:59		OK
10	CCV1	CCV1	CCV	05/29/18 14:59		OK
11	CCB1	CCB1	CCB	05/29/18 14:59		OK
12	PB109749BL	PB109749BL	MB	05/29/18 14:59		OK
13	PB109749BS	PB109749BS	LCS	05/29/18 14:59		OK
14	MIDPB109749	MIDPB109749	SAM	05/29/18 14:59		OK
15	J3173-01	W-1	SAM	05/29/18 14:59		OK
16	J3173-01DUP	W-1DUP	DUP	05/29/18 14:59		OK
17	J3173-01MS	W-1MS	MS	05/29/18 14:59		OK
18	J3173-01MSD	W-1MSD	MSD	05/29/18 14:59		OK
19	CCV3	CCV3	CCV	05/29/18 15:02		OK
20	CCB3	CCB3	CCB	05/29/18 15:02		OK



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Report of Analysis

Client:		Date Collected:	5/24/2018 12:00:00 AM
Project:	LB95680	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	W-1	SDG No.:	LB95680
Lab Sample ID:	J3173-01	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	0.0063		1	0.001		0.005	mg/L	05/29/2018	05/29/2018	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	
Project:	LB95680	Date Received:	
Client Sample ID:	MIDPB109749	SDG No.:	LB95680
Lab Sample ID:	MIDPB109749	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	0.26		1	0.001		0.005	mg/L		05/29/2018	SM4500-CN C,]



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Report of Analysis

Client:		Date Collected:	
Project:	LB95680	Date Received:	
Client Sample ID:	MIDPB109749	SDG No.:	LB95680
Lab Sample ID:	MIDPB109749	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

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95680

SDG No.: LB95680

Contract: _____ Lab Code: CHEM

Case No.: LB95680

SAS No.: LB95680

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Cyanide	0.25	0.25	100		90 - 110		05/29/2018	14:59	LB95680
CCV3	Cyanide	0.27	0.25	108		90 - 110		05/29/2018	15:02	LB95680



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95680 **SDG No.:** LB95680
Contract: **Lab Code:** CHEM **Case No.:** LB95680 **SAS No.:** LB95680

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.0022	+/-0.005	J		0.005		05/29/2018	14:59	LB95680



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95680

SDG No.: LB95680

Contract:

Lab Code: CHEM

Case No.: LB95680

SAS No.: LB95680

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.0024	+/-0.005	J		0.005		05/29/2018	14:59	LB95680
CCB3	Cyanide	0.002	+/-0.005	J		0.005		05/29/2018	15:02	LB95680



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95680

SDG No.: LB95680

Contract: Lab Code: CHEM

Case No.: LB95680

SAS No.: LB95680

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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- 3b -
PREPARATION BLANK SUMMARY

Client: LB95680

SDG No.: LB95680

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
PB109749BL	Cyanide	WATER 0.0023	<0.005	Batch Number: J		PB109749 0.005		Prep Date: 05/29/2018	05/29/2018 14:59	LB95680



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- 5a -
MATRIX SPIKE SUMMARY

client: LB95680 level: low sdg no.: LB95680
contract: lab code: CHEM case no.: LB95680 sas no.: LB95680
matrix: WATER sample id: J3173-01 client id: W-1MS
Percent Solids for Sample: 0 Spiked ID: J3173-01MS 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	0.046		0.0063		0.04	99		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95680 level: low sdg no.: LB95680
contract: lab code: CHEM case no.: LB95680 sas no.: LB95680
matrix: WATER sample id: J3173-01 client id: W-1MSD
Percent Solids for Sample: 0 Spiked ID: J3173-01MSD 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	0.046		0.0063		0.04	99		

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DUPLICATE SAMPLE SUMMARY

Client: LB95680 **Level:** LOW **SDG No.:** LB95680
Contract: **Lab Code:** CHEM **Case No.:** LB95680 **SAS No.:** LB95680
Matrix: WATER **Sample ID:** J3173-01 **Client ID:** W-1DUP
Percent Solids for Sample: 0 **Duplicate ID** J3173-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.0063		0.006		5		



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DUPLICATE SAMPLE SUMMARY

Client: LB95680 **Level:** LOW **SDG No.:** LB95680
Contract: **Lab Code:** CHEM **Case No.:** LB95680 **SAS No.:** LB95680
Matrix: WATER **Sample ID:** J3173-01MS **Client ID:** W-1MSD
Percent Solids for Sample: 0 **Duplicate ID** J3173-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.046		0.046		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95680

SDG No.: LB95680

Contract:

Lab Code: CHEM

Case No.: LB95680

SAS No.: LB95680

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB109749BS Cyanide	mg/L	0.1	0.096		96	85 - 115	