

Daily Analysis Runlog For Sequence/QC Batch ID # LB92570

Review By		Review On				
SubDirectory		LB92570		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP60880,WP60881,WP60882,WP60883,WP60884,WP60885,WP60886				
ICV Standard		W1541				
CCV Standard		WP60887				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP60889,WP59958,WP60878				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	01/11/18 11:35		OK
2	5.0PPBCN	5.0PPBCN	CAL2	01/11/18 11:35		OK
3	10PPBCN	10PPBCN	CAL3	01/11/18 11:35		OK
4	50PPBCN	50PPBCN	CAL4	01/11/18 11:35		OK
5	100PPBCN	100PPBCN	CAL5	01/11/18 11:35		OK
6	250PPBCN	250PPBCN	CAL6	01/11/18 11:36		OK
7	500PPBCN	500PPBCN	CAL7	01/11/18 11:36		OK
8	ICV1	ICV1	ICV	01/11/18 15:38		OK
9	ICB1	ICB1	ICB	01/11/18 15:38		OK
10	CCV1	CCV1	CCV	01/11/18 15:38		OK
11	CCB1	CCB1	CCB	01/11/18 15:38		OK
12	PB105584BL	PB105584BL	MB	01/11/18 15:38		OK
13	PB105584BS	PB105584BS	LCS	01/11/18 15:38		OK
14	MIDPB105584	MIDPB105584	SAM	01/11/18 15:38		OK
15	J1086-01	EFF	SAM	01/11/18 15:45		OK
16	J1086-01DUP	EFFDUP	DUP	01/11/18 15:45		OK
17	J1086-01MS	EFFMS	MS	01/11/18 15:45		OK
18	J1086-01MSD	EFFMSD	MSD	01/11/18 15:45		OK
19	CCV2	CCV2	CCV	01/11/18 15:45		OK
20	CCB2	CCB2	CCB	01/11/18 15:45		OK



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Report of Analysis

Client:		Date Collected:	1/9/2018 12:00:00 AM
Project:	LB92570	Date Received:	1/10/2018 12:00:00 AM
Client Sample ID:	EFF	SDG No.:	LB92570
Lab Sample ID:	J1086-01	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	0.0039	J	1	0.001		0.005	mg/L	01/11/2018	01/11/2018	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	
Project:	LB92570	Date Received:	
Client Sample ID:	MIDPB105584	SDG No.:	LB92570
Lab Sample ID:	MIDPB105584	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	0.24		1	0.001		0.005	mg/L		01/11/2018	SM4500-CN C,]



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Report of Analysis

Client:		Date Collected:	
Project:	LB92570	Date Received:	
Client Sample ID:	MIDPB105584	SDG No.:	LB92570
Lab Sample ID:	MIDPB105584	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: LB92570

SDG No.: LB92570

Contract: _____ Lab Code: CHEM

Case No.: LB92570

SAS No.: LB92570

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	0.099	0.099	100	0	85 - 115		01/11/2018	15:38	LB92570



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92570

SDG No.: LB92570

Contract: _____ Lab Code: CHEM

Case No.: LB92570

SAS No.: LB92570

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	0.25	0.25	100	0	90 - 110		01/11/2018	15:38	LB92570
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		01/11/2018	15:45	LB92570



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92570

SDG No.: LB92570

Contract:

Lab Code: CHEM

Case No.: LB92570

SAS No.: LB92570

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.001	+/-0.005	J		0.005		01/11/2018	15:38	LB92570



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92570

SDG No.: LB92570

Contract:

Lab Code: CHEM

Case No.: LB92570

SAS No.: LB92570

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00095	+/-0.005	U		0.005		01/11/2018	15:38	LB92570
CCB2	Cyanide	0.0012	+/-0.005	J		0.005		01/11/2018	15:45	LB92570



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92570

SDG No.: LB92570

Contract: Lab Code: CHEM

Case No.: LB92570

SAS No.: LB92570

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: LB92570

SDG No.: LB92570

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
PB105584BL	Cyanide	WATER 0.001	<0.005	Batch Number: J		PB105584 0.005		Prep Date: 01/11/2018	01/11/2018 15:38	LB92570



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- 5a -
MATRIX SPIKE SUMMARY

client: LB92570 level: low sdg no.: LB92570
contract: lab code: CHEM case no.: LB92570 sas no.: LB92570
matrix: WATER sample id: J1086-01 client id: EFFMS
Percent Solids for Sample: 0 Spiked ID: J1086-01MS 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	0.038		0.0039	J	0.04	85		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92570 level: low sdg no.: LB92570
contract: lab code: CHEM case no.: LB92570 sas no.: LB92570
matrix: WATER sample id: J1086-01 client id: EFFMSD
Percent Solids for Sample: 0 Spiked ID: J1086-01MSD 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	0.038		0.0039	J	0.04	85		

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DUPLICATE SAMPLE SUMMARY

Client: LB92570 **Level:** LOW **SDG No.:** LB92570
Contract: **Lab Code:** CHEM **Case No.:** LB92570 **SAS No.:** LB92570
Matrix: WATER **Sample ID:** J1086-01 **Client ID:** EFFDUP
Percent Solids for Sample: 0 **Duplicate ID** J1086-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.0039	J	0.0041	J	5		



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DUPLICATE SAMPLE SUMMARY

Client: LB92570 Level: LOW SDG No.: LB92570
Contract: _____ Lab Code: CHEM Case No.: LB92570 SAS No.: LB92570
Matrix: WATER Sample ID: J1086-01MS Client ID: EFFMSD
Percent Solids for Sample: 0 Duplicate ID J1086-01MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.038		0.038		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92570

SDG No.: LB92570

Contract:

Lab Code: CHEM

Case No.: LB92570

SAS No.: LB92570

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB105584BS Cyanide	mg/L	0.1	0.098		98	85 - 115	