

Daily Analysis Runlog For Sequence/QC Batch ID # LB96148

Review By		Review On				
SubDirectory		LB96148		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP65448,WP65449,WP65450,WP65451,WP65452,WP65453,WP65454				
ICV Standard		W1542				
CCV Standard		WP65455				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP65457,WP64695,WP64696				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/20/18 08:14		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/20/18 08:14		OK
3	10PPBCN	10PPBCN	CAL3	06/20/18 08:14		OK
4	50PPBCN	50PPBCN	CAL4	06/20/18 08:14		OK
5	100PPBCN	100PPBCN	CAL5	06/20/18 08:14		OK
6	250PPBCN	250PPBCN	CAL6	06/20/18 08:14		OK
7	500PPBCN	500PPBCN	CAL7	06/20/18 08:14		OK
8	ICV1	ICV1	ICV	06/20/18 10:32		OK
9	ICB1	ICB1	ICB	06/20/18 10:32		OK
10	CCV1	CCV1	CCV	06/20/18 10:32		OK
11	CCB1	CCB1	CCB	06/20/18 10:32		OK
12	PB110410BL	PB110410BL	MB	06/20/18 10:32		OK
13	PB110410BS	PB110410BS	LCS	06/20/18 10:33		OK
14	MIDPB110410	MIDPB110410	SAM	06/20/18 10:33		OK
15	J3534-01	EFF-WW	SAM	06/20/18 10:33		OK
16	J3534-01DUP	EFF-WWDUP	DUP	06/20/18 10:33		OK
17	J3534-01MS	EFF-WWMS	MS	06/20/18 10:33		OK
18	J3534-01MSD	EFF-WWMSD	MSD	06/20/18 10:33		OK
19	CCV2	CCV2	CCV	06/20/18 10:36		OK
20	CCB2	CCB2	CCB	06/20/18 10:36		OK



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Report of Analysis

Client:		Date Collected:	6/15/2018 12:00:00 AM
Project:	LB96148	Date Received:	6/15/2018 12:00:00 AM
Client Sample ID:	EFF-WW	SDG No.:	LB96148
Lab Sample ID:	J3534-01	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	0.0011	J	1	0.001		0.005	mg/L	06/19/2018	06/20/2018	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	
Project:	LB96148	Date Received:	
Client Sample ID:	MIDPB110410	SDG No.:	LB96148
Lab Sample ID:	MIDPB110410	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		06/20/2018	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	
Project:	LB96148	Date Received:	
Client Sample ID:	MIDPB110410	SDG No.:	LB96148
Lab Sample ID:	MIDPB110410	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

Sample ID	Analyte	Result	True Value	%	Acceptance	M	Analysis	Analysis	Run
		mg/L		Recovery	Window (%R)		Date	Time	Number
ICV1	Cyanide	0.098	0.099	99	85 - 115		06/20/2018	10:32	LB96148



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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB96148

SDG No.: LB96148

Contract: _____ Lab Code: CHEM

Case No.: LB96148

SAS No.: LB96148

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	0.24	0.25	96		90 - 110		06/20/2018	10:32	LB96148
CCV2	Cyanide	0.26	0.25	104		90 - 110		06/20/2018	10:36	LB96148



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96148 **SDG No.:** LB96148
Contract: **Lab Code:** CHEM **Case No.:** LB96148 **SAS No.:** LB96148

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00074	+/-0.005	U		0.005		06/20/2018	10:32	LB96148



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96148

SDG No.: LB96148

Contract:

Lab Code: CHEM

Case No.: LB96148

SAS No.: LB96148

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.0015	+/-0.005	J		0.005		06/20/2018	10:32	LB96148
CCB2	Cyanide	0.00043	+/-0.005	U		0.005		06/20/2018	10:36	LB96148



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96148

SDG No.: LB96148

Contract: Lab Code: CHEM

Case No.: LB96148

SAS No.: LB96148

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

Client: LB96148

SDG No.: LB96148

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
PB110410BL	Cyanide	WATER -0.00074	<0.005	Batch Number: U		PB110410 0.005		Prep Date: 06/20/2018	06/19/2018 10:32	LB96148



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MATRIX SPIKE SUMMARY

client: LB96148 level: low sdg no.: LB96148
contract: lab code: CHEM case no.: LB96148 sas no.: LB96148
matrix: WATER sample id: J3534-01 client id: EFF-WWMS
Percent Solids for Sample: 0 Spiked ID: J3534-01MS 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	0.01		0.0011	J	0.04	22	*	



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MATRIX SPIKE DUPLICATE SUMMARY

client: LB96148 level: low sdg no.: LB96148
contract: lab code: CHEM case no.: LB96148 sas no.: LB96148
matrix: WATER sample id: J3534-01 client id: EFF-WWMSD
Percent Solids for Sample: 0 Spiked ID: J3534-01MSD 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	0.0093		0.0011	J	0.04	21	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB96148 **Level:** LOW **SDG No.:** LB96148
Contract: **Lab Code:** CHEM **Case No.:** LB96148 **SAS No.:** LB96148
Matrix: WATER **Sample ID:** J3534-01 **Client ID:** EFF-WWDUP
Percent Solids for Sample: 0 **Duplicate ID** J3534-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.0011	J	0.00067	U	200.0	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB96148 **Level:** LOW **SDG No.:** LB96148
Contract: **Lab Code:** CHEM **Case No.:** LB96148 **SAS No.:** LB96148
Matrix: WATER **Sample ID:** J3534-01MS **Client ID:** EFF-WWMSD
Percent Solids for Sample: 0 **Duplicate ID** J3534-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.01		0.0093		7		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB96148

SDG No.: LB96148

Contract:

Lab Code: CHEM

Case No.: LB96148

SAS No.: LB96148

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB110410BS Cyanide	mg/L	0.1	0.098		98	85 - 115	