

Daily Analysis Runlog For Sequence/QC Batch ID # LB89936

Review By		Review On				
SubDirectory		LB89936		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57756,WP57757,WP57758,WP57759,WP57760,WP57761,WP57762,WP57763				
ICV Standard		WP57765				
CCV Standard		WP57766				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		wp57764,wp55355,wp55836				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	09/07/17 13:26		OK
2	5.0PPBCN	5.0PPBCN	CAL2	09/07/17 13:26		OK
3	10PPBCN	10PPBCN	CAL3	09/07/17 13:26		OK
4	50PPBCN	50PPBCN	CAL4	09/07/17 13:26		OK
5	100PPBCN	100PPBCN	CAL5	09/07/17 13:26		OK
6	250PPBCN	250PPBCN	CAL6	09/07/17 13:26		OK
7	500PPBCN	500PPBCN	CAL7	09/07/17 13:26		OK
8	ICV1	ICV1	ICV	09/07/17 16:05		OK
9	ICB1	ICB1	ICB	09/07/17 16:05		OK
10	CCV1	CCV1	CCV	09/07/17 16:05		OK
11	CCB1	CCB1	CCB	09/07/17 16:05		OK
12	PB102117BL	PB102117BL	MB	09/07/17 16:05		OK
13	PB102117BS	PB102117BS	LCS	09/07/17 16:05		OK
14	MIDPB102117	MIDPB102117	SAM	09/07/17 16:12		OK
15	I5124-01	EFF	SAM	09/07/17 16:12		OK
16	I5124-01DUP	EFFDUP	DUP	09/07/17 16:12		OK
17	I5124-01MS	EFFMS	MS	09/07/17 16:12		OK
18	I5124-01MSD	EFFMSD	MSD	09/07/17 16:12		OK
19	CCV2	CCV2	CCV	09/07/17 16:12		OK
20	CCB2	CCB2	CCB	09/07/17 16:12		OK



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89936	Date Received:	9/6/2017 12:00:00 AM
Client Sample ID:	EFF	SDG No.:	LB89936
Lab Sample ID:	I5124-01	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	0.0001	U	1	0.001		0.005	mg/L	09/07/2017	09/07/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB89936	Date Received:	
Client Sample ID:	MIDPB102117	SDG No.:	LB89936
Lab Sample ID:	MIDPB102117	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		09/07/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB89936	Date Received:	
Client Sample ID:	MIDPB102117	SDG No.:	LB89936
Lab Sample ID:	MIDPB102117	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: LB89936

SDG No.: LB89936

Contract: _____ Lab Code: CHEM

Case No.: LB89936

SAS No.: LB89936

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		09/07/2017	16:05	LB89936
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		09/07/2017	16:12	LB89936



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89936 **SDG No.:** LB89936
Contract: **Lab Code:** CHEM **Case No.:** LB89936 **SAS No.:** LB89936

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00045	+/-0.005	U		0.005		09/07/2017	16:05	LB89936



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89936

SDG No.: LB89936

Contract:

Lab Code: CHEM

Case No.: LB89936

SAS No.: LB89936

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00026	+/-0.005	U		0.005		09/07/2017	16:05	LB89936
CCB2	Cyanide	0	+/-0.005	U		0.005		09/07/2017	16:12	LB89936



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89936

SDG No.: LB89936

Contract: Lab Code: CHEM

Case No.: LB89936

SAS No.: LB89936

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: LB89936

SDG No.: LB89936

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
PB102117BL	Cyanide	WATER -0.00023	<0.005	Batch Number: U		PB102117 0.005		Prep Date: 09/07/2017	09/07/2017 16:05	LB89936



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MATRIX SPIKE SUMMARY

client: LB89936 level: low sdg no.: LB89936
contract: lab code: CHEM case no.: LB89936 sas no.: LB89936
matrix: WATER sample id: I5124-01 client id: EFFMS
Percent Solids for Sample: 0 Spiked ID: I5124-01MS 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	0.037		0.001	U	0.04	92.5		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB89936 level: low sdg no.: LB89936
contract: lab code: CHEM case no.: LB89936 sas no.: LB89936
matrix: WATER sample id: I5124-01 client id: EFFMSD
Percent Solids for Sample: 0 Spiked ID: I5124-01MSD 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	0.037		0.001	U	0.04	92.5		

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DUPLICATE SAMPLE SUMMARY

Client: LB89936 **Level:** LOW **SDG No.:** LB89936
Contract: **Lab Code:** CHEM **Case No.:** LB89936 **SAS No.:** LB89936
Matrix: WATER **Sample ID:** I5124-01 **Client ID:** EFFDUP
Percent Solids for Sample: 0 **Duplicate ID** I5124-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.001	U	-0.00064	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB89936 **Level:** LOW **SDG No.:** LB89936
Contract: **Lab Code:** CHEM **Case No.:** LB89936 **SAS No.:** LB89936
Matrix: WATER **Sample ID:** I5124-01MS **Client ID:** EFFMSD
Percent Solids for Sample: 0 **Duplicate ID** I5124-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.037		0.037		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89936

SDG No.: LB89936

Contract:

Lab Code: CHEM

Case No.: LB89936

SAS No.: LB89936

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB102117BS Cyanide	mg/L	0.1	0.098		98	85 - 115	