

Daily Analysis Runlog For Sequence/QC Batch ID # LB89704

Review By		Review On				
SubDirectory		LB89704		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57461,WP57462,WP57463,WP57464,WP57465,WP57466,WP57467,WP57468,WP57469,WP57470				
ICV Standard		WP57470				
CCV Standard		WP57468				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57469,WP55355,WP55836				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	08/24/17 09:11		OK
2	5.0PPBCN	5.0PPBCN	CAL2	08/24/17 09:11		OK
3	10PPBCN	10PPBCN	CAL3	08/24/17 09:11		OK
4	50PPBCN	50PPBCN	CAL4	08/24/17 09:11		OK
5	100PPBCN	100PPBCN	CAL5	08/24/17 09:11		OK
6	250PPBCN	250PPBCN	CAL6	08/24/17 09:11		OK
7	500PPBCN	500PPBCN	CAL7	08/24/17 09:11		OK
8	ICV1	ICV1	ICV	08/24/17 18:25		OK
9	ICB1	ICB1	ICB	08/24/17 18:25		OK
10	CCV1	CCV1	CCV	08/24/17 18:25		OK
11	CCB1	CCB1	CCB	08/24/17 18:25		OK
12	PB101797BL	PB101797BL	MB	08/24/17 18:25		OK
13	PB101797BS	PB101797BS	LCS	08/24/17 18:33		OK
14	MIDPB101797	MIDPB101797	SAM	08/24/17 18:33		OK
15	I4906-01	AMENABLES-1-4-CO	SAM	08/24/17 18:33		OK
16	I4906-01DUP	AMENABLES-1-4-CO	DUP	08/24/17 18:33		OK
17	I4906-01MS	AMENABLES-1-4-CO	MS	08/24/17 18:33		OK
18	I4906-01MSD	AMENABLES-1-4-CO	MSD	08/24/17 18:33		OK
19	CCV2	CCV2	CCV	08/24/17 18:33		OK
20	CCB2	CCB2	CCB	08/24/17 18:33		OK



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Report of Analysis

Client:		Date Collected:	8/23/2017 12:00:00 AM
Project:	LB89704	Date Received:	8/23/2017 12:00:00 AM
Client Sample ID:	AMENABLES-1-4-COMP	SDG No.:	LB89704
Lab Sample ID:	I4906-01	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	0.00067	U	1	0.001		0.005	mg/L	08/24/2017	08/24/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	
Project:	LB89704	Date Received:	
Client Sample ID:	MIDPB101797	SDG No.:	LB89704
Lab Sample ID:	MIDPB101797	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		08/24/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB89704	Date Received:	
Client Sample ID:	MIDPB101797	SDG No.:	LB89704
Lab Sample ID:	MIDPB101797	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



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89704

SDG No.: LB89704

Contract: _____ Lab Code: CHEM

Case No.: LB89704

SAS No.: LB89704

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		08/24/2017	18:25	LB89704
CCV2	Cyanide	0.26	0.25	104	0	90 - 110		08/24/2017	18:33	LB89704



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89704

SDG No.: LB89704

Contract:

Lab Code: CHEM

Case No.: LB89704

SAS No.: LB89704

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00076	+/-0.005	U		0.005		08/24/2017	18:25	LB89704



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89704

SDG No.: LB89704

Contract:

Lab Code: CHEM

Case No.: LB89704

SAS No.: LB89704

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00076	+/-0.005	U		0.005		08/24/2017	18:25	LB89704
CCB2	Cyanide	0.0015	+/-0.005	J		0.005		08/24/2017	18:33	LB89704



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB89704

SDG No.:

LB89704

Contract:

Lab Code:

CHEM

Case No.:

LB89704

SAS No.:

LB89704

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: LB89704

SDG No.: LB89704

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
PB101797BL	Cyanide	WATER 0.0011	<0.005	Batch Number: J		PB101797 0.005		Prep Date: 08/24/2017	08/24/2017 18:25	LB89704



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- 5a -
MATRIX SPIKE SUMMARY

client: LB89704 level: low sdg no.: LB89704
contract: lab code: CHEM case no.: LB89704 sas no.: LB89704
matrix: WATER sample id: I4906-01 client id: AMENABLES-1-4-COMPMS
Percent Solids for Sample: 0 Spiked ID: I4906-01MS 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	0.036		0.001	U	0.04	90		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB89704 level: low sdg no.: LB89704
contract: lab code: CHEM case no.: LB89704 sas no.: LB89704
matrix: WATER sample id: I4906-01 client id: AMENABLES-1-4-COMPMSD
Percent Solids for Sample: 0 Spiked ID: I4906-01MSD 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	0.032		0.001	U	0.04	80		

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89704 **Level:** LOW **SDG No.:** LB89704
Contract: **Lab Code:** CHEM **Case No.:** LB89704 **SAS No.:** LB89704
Matrix: WATER **Sample ID:** I4906-01 **Client ID:** AMENABLES-1-4-COMPDUP
Percent Solids for Sample: 0 **Duplicate ID** I4906-01DUP **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	0.00035	U			

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89704 **Level:** LOW **SDG No.:** LB89704
Contract: **Lab Code:** CHEM **Case No.:** LB89704 **SAS No.:** LB89704
Matrix: WATER **Sample ID:** I4906-01MS **Client ID:** AMENABLES-1-4-COMPMSD
Percent Solids for Sample: 0 **Duplicate ID** I4906-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.036		0.032		12		



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- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89704

SDG No.: LB89704

Contract:

Lab Code: CHEM

Case No.: LB89704

SAS No.: LB89704

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB101797BS Cyanide	mg/L	0.1	0.098		98	85 - 115	