

Daily Analysis Runlog For Sequence/QC Batch ID # LB89722

Review By		Review On				
SubDirectory		LB89722		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57507,WP57506,WP57505,WP57504,WP57503,WP57502				
ICV Standard		WP57508				
CCV Standard		WP57509				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP53945,WP57513,WP55836				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	08/25/17 15:21		OK
2	5.0PPBCN	5.0PPBCN	CAL2	08/25/17 15:21		OK
3	10PPBCN	10PPBCN	CAL3	08/25/17 15:21		OK
4	100PPBCN	100PPBCN	CAL4	08/25/17 15:21		OK
5	250PPBCN	250PPBCN	CAL5	08/25/17 15:21		OK
6	500PPBCN	500PPBCN	CAL6	08/25/17 15:21		OK
7	ICV	ICV	ICV	08/25/17 16:07		OK
8	ICB	ICB	ICB	08/25/17 16:07		OK
9	CCV001	CCV001	CCV	08/25/17 16:07		OK
10	CCB001	CCB001	CCB	08/25/17 16:07		OK
11	PB101820BL	PBW005	MB	08/25/17 16:07		OK
12	I4978-01	MBDZN5	SAM	08/25/17 16:07		OK
13	I4978-02	MBDZN6	SAM	08/25/17 16:14		OK
14	I4978-03	MBDZN7	SAM	08/25/17 16:14		OK
15	I4978-04	MBDZN7D	DUP	08/25/17 16:14		OK
16	I4978-05	MBDZN7S	MS	08/25/17 16:14		OK
17	I4978-06	MBDZN8	SAM	08/25/17 16:14		OK
18	CCV002	CCV002	CCV	08/25/17 16:14		OK
19	CCB002	CCB002	CCB	08/25/17 16:14		OK



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Report of Analysis

Client:		Date Collected:	8/23/2017 12:00:00 AM
Project:	LB89722	Date Received:	8/25/2017 12:00:00 AM
Client Sample ID:	MBDZN5	SDG No.:	LB89722
Lab Sample ID:	I4978-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.69	U	1	1.5	5	10	ug/L	08/25/2017	08/25/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/23/2017 12:00:00 AM
Project:	LB89722	Date Received:	8/25/2017 12:00:00 AM
Client Sample ID:	MBDZN6	SDG No.:	LB89722
Lab Sample ID:	I4978-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.13	U	1	1.5	5	10	ug/L	08/25/2017	08/25/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/23/2017 12:00:00 AM
Project:	LB89722	Date Received:	8/25/2017 12:00:00 AM
Client Sample ID:	MBDZN7	SDG No.:	LB89722
Lab Sample ID:	I4978-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	1.5	5	10	ug/L	08/25/2017	08/25/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/23/2017 12:00:00 AM
Project:	LB89722	Date Received:	8/25/2017 12:00:00 AM
Client Sample ID:	MBDZN8	SDG No.:	LB89722
Lab Sample ID:	I4978-06	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	1.1	U	1	1.5	5	10	ug/L	08/25/2017	08/25/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/23/2017 12:00:00 AM
Project:	LB89722	Date Received:	8/25/2017 12:00:00 AM
Client Sample ID:	MBDZN8	SDG No.:	LB89722
Lab Sample ID:	I4978-06	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

Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: <u>LB89722</u>	SDG No.: <u>LB89722</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB89722</u>	SAS No.: <u>LB89722</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB101820							
PB101820BL	PBW005	MB	WATER	08/25/2017	50.0	50.0	
I4978-01	MBDZN5	SAM	WATER	08/25/2017	50.0	50.0	
I4978-02	MBDZN6	SAM	WATER	08/25/2017	50.0	50.0	
I4978-03	MBDZN7	SAM	WATER	08/25/2017	50.0	50.0	
I4978-04	MBDZN7D	DUP	WATER	08/25/2017	50.0	50.0	
I4978-05	MBDZN7S	MS	WATER	08/25/2017	50.0	50.0	
I4978-06	MBDZN8	SAM	WATER	08/25/2017	50.0	50.0	

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB89722 Contract: _____
Lab Code: CHEM Case No.: LB89722 MA No.: _____ SDG No.: LB89722
Instrument ID: CN Start Date: 08/25/2017
Analytical Method: _____ Run Batch: LB89722.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0	0	5	4.5	-10	10	9.4	-6

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB89722 Contract: _____
Lab Code: CHEM Case No.: LB89722 MA No.: _____ SDG No.: LB89722
Instrument ID: CN Start Date: 08/25/2017
Analytical Method: _____ Run Batch: LB89722.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	99.9	0	250	252	1	500	499	0



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89722

SDG No.: LB89722

Contract: _____ Lab Code: CHEM

Case No.: LB89722

SAS No.: LB89722

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV	Cyanide	97.3	99	98	0	85 - 115	CN	08/25/2017	16:07	LB89722



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89722

SDG No.: LB89722

Contract: _____ Lab Code: CHEM

Case No.: LB89722

SAS No.: LB89722

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV001	Cyanide	242	250	97	0	85 - 115	CN	08/25/2017	16:07	LB89722
CCV002	Cyanide	244	250	98	0	85 - 115	CN	08/25/2017	16:14	LB89722



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89722 **SDG No.:** LB89722
Contract: **Lab Code:** CHEM **Case No.:** LB89722 **SAS No.:** LB89722

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	08/25/2017	16:07	LB89722



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89722

SDG No.: LB89722

Contract:

Lab Code: CHEM

Case No.: LB89722

SAS No.: LB89722

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	0.093	+/-10.0	U	5.0	10.0	CN	08/25/2017	16:07	LB89722
CCB002	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	08/25/2017	16:14	LB89722



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89722

SDG No.: LB89722

Contract:

Lab Code: CHEM

Case No.: LB89722

SAS No.: LB89722

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

Client: LB89722

SDG No.: LB89722

Instrument: CN

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB101820BL	Cyanide	0.031	<10	U	5.0	10	CN	08/25/2017	16:07	LB89722



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB89722 level: low sdg no.: LB89722
contract: lab code: CHEM case no.: LB89722 sas no.: LB89722
matrix: WATER sample id: I4978-03 client id: MBDZN7S
Percent Solids for Sample: 0 Spiked ID: I4978-05 Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	ug/L	75 - 125	93.3		10.0	U	100	93		CN



Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89722 Level: LOW SDG No.: LB89722
Contract: Lab Code: CHEM Case No.: LB89722 SAS No.: LB89722
Matrix: WATER Sample ID: I4978-03 Client ID: MBDZN7D
Percent Solids for Sample: 0 Duplicate ID I4978-04 Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	ug/L	20	10.0	U	0.5	U			CN

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”