

Daily Analysis Runlog For Sequence/QC Batch ID # LB93043

Review By		Review On				
SubDirectory		LB93043		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP61350,WP61351,WP61352,WP61353,WP61354,WP61355				
ICV Standard		WP61356				
CCV Standard		WP61357				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP61532,WP59958,WP58653				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	02/01/18 10:14		OK
2	S5.0	S5.0	CAL2	02/01/18 10:14		OK
3	S10.0	S10.0	CAL3	02/01/18 10:14		OK
4	S100.0	S100.0	CAL4	02/01/18 10:14		OK
5	S250.0	S250.0	CAL5	02/01/18 10:14		OK
6	S500.0	S500.0	CAL6	02/01/18 10:14		OK
7	ICV	ICV	ICV	02/01/18 11:18		OK
8	ICB	ICB	ICB	02/01/18 11:18		OK
9	CCV001	CCV001	CCV	02/01/18 11:18		OK
10	CCB001	CCB001	CCB	02/01/18 11:18		OK
11	PB106065BL	PBS006	MB	02/01/18 11:18		OK
12	J1323-19	MX2C03	SAM	02/01/18 11:18		OK
13	J1323-20	MX2C03D	DUP	02/01/18 11:18		OK
14	J1323-21	MX2C03S	MS	02/01/18 11:23		OK
15	PB106066BL	PBW005	MB	02/01/18 11:23		OK
16	J1323-10	MX2C00	SAM	02/01/18 11:23		OK
17	J1323-11	MX2C00D	DUP	02/01/18 11:23		OK
18	J1323-12	MX2C00S	MS	02/01/18 11:23		OK
19	CCV002	CCV002	CCV	02/01/18 11:23		OK
20	CCB002	CCB002	CCB	02/01/18 11:24		OK



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB93043	Date Received:	1/25/2018 12:00:00 AM
Client Sample ID:	MX2C00	SDG No.:	LB93043
Lab Sample ID:	J1323-10	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	228		1	2.1	5	10	ug/L	01/26/2018	02/01/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB93043	Date Received:	1/25/2018 12:00:00 AM
Client Sample ID:	MX2C03	SDG No.:	LB93043
Lab Sample ID:	J1323-19	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	1.9		1	0.11	0.012	0.5	mg/kg	01/26/2018	02/01/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB93043	Date Received:	1/25/2018 12:00:00 AM
Client Sample ID:	MX2C03	SDG No.:	LB93043
Lab Sample ID:	J1323-19	Matrix:	Solid
Level (low/med):	low	% Solid:	100

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

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Client: LB93043

SDG No.: LB93043

Contract:

Lab Code: CHEM

Case No.: LB93043

SAS No.: LB93043

Instrument ID: P4

Preparation Method:

Analyte	Wave- length (nm)	MDL	LOD	PQL	Date:
LIQUID					
Method: Cyanide	578.00				
SOLIDS					
Method: Cyanide	578.00				

Metals
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SAMPLE PREPARATION SUMMARY

Client: LB93043

SDG No.: LB93043

Contract:

Lab Code: CHEM

Method:

Case No.: LB93043

SAS No.: LB93043

						Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date				
Batch Number: PB106065								
PB106065BL	PBS006	MB	SOLID	02/01/2018		1.00	50.0	100.00
J1323-19	MX2C03	SAM	SOLID	02/01/2018		1.01	50.0	100.00
J1323-20	MX2C03D	DUP	SOLID	02/01/2018		1.02	50.0	100.00
J1323-21	MX2C03S	MS	SOLID	02/01/2018		1.03	50.0	100.00

Metals
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SAMPLE PREPARATION SUMMARY

Client:

LB93043

Contract:

SDG No.:

LB93043

Lab Code:

CHEM

Method:

Case No.:

LB93043

SAS No.:

LB93043

						Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date				
Batch Number: PB106066								
PB106066BL	PBW005	MB	WATER	02/01/2018		50.0	50.0	
J1323-10	MX2C00	SAM	WATER	02/01/2018		50.0	50.0	
J1323-11	MX2C00D	DUP	WATER	02/01/2018		50.0	50.0	
J1323-12	MX2C00S	MS	WATER	02/01/2018		50.0	50.0	



Start Date: _____ **End Date:** _____

[illegible]

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB93043 Contract: _____
Lab Code: CHEM Case No.: LB93043 MA No.: _____ SDG No.: LB93043
Instrument ID: CN Start Date: 02/01/2018
Analytical Method: _____ Run Batch: LB93043.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0.96	0	5	3.8	-24	10	9.7	-3

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB93043 Contract: _____
Lab Code: CHEM Case No.: LB93043 MA No.: _____ SDG No.: LB93043
Instrument ID: CN Start Date: 02/01/2018
Analytical Method: _____ Run Batch: LB93043.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	99.7	0	250	252	1	500	499	0



Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93043

SDG No.: LB93043

Contract: Lab Code: CHEM

Case No.: LB93043

SAS No.: LB93043

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		ug/L								
ICV	Cyanide	97.0	99	98	0	85 - 115	CN	02/01/2018	11:18	LB93043



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93043

SDG No.: LB93043

Contract: _____ Lab Code: CHEM

Case No.: LB93043

SAS No.: LB93043

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	243	250	97	0	85 - 115	CN	02/01/2018	11:18	LB93043
CCV002	Cyanide	252	250	101	0	85 - 115	CN	02/01/2018	11:23	LB93043



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93043 **SDG No.:** LB93043
Contract: **Lab Code:** CHEM **Case No.:** LB93043 **SAS No.:** LB93043

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB	Cyanide	1.4	+/-10.0	U	5.0	10.0	CN	02/01/2018	11:18	LB93043



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	<u>LB93043</u>	SDG No.:	<u>LB93043</u>				
Contract:	<u> </u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>LB93043</u>	SAS No.:	<u>LB93043</u>

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	2.1	+/-10.0	U	5.0	10.0	CN	02/01/2018	11:18	LB93043
CCB002	Cyanide	2.1	+/-10.0	U	5.0	10.0	CN	02/01/2018	11:24	LB93043



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93043

SDG No.: LB93043

Contract: Lab Code: CHEM

Case No.: LB93043

SAS No.: LB93043

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: LB93043

SDG No.: LB93043

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB106065BL	SOLID		Batch Number:		PB106065		Prep Date:		01/26/2018	
	Cyanide	0.11	<0.5	U	0.013	0.5	CN	02/01/2018	11:18	LB93043
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB106066BL	WATER		Batch Number:		PB106066		Prep Date:		01/26/2018	
	Cyanide	2.1	<10	U	5.0	10	CN	02/01/2018	11:23	LB93043



metals
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MATRIX SPIKE SUMMARY

client: LB93043 level: low sdg no.: LB93043
contract: lab code: CHEM case no.: LB93043 sas no.: LB93043
matrix: WATER sample id: J1323-10 client id: MX2C00S
Percent Solids for Sample: 0 Spiked ID: J1323-12 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	332		228		100	105		CN



metals
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MATRIX SPIKE SUMMARY

client: LB93043 level: low sdg no.: LB93043
contract: lab code: CHEM case no.: LB93043 sas no.: LB93043
matrix: Solid sample id: J1323-19 client id: MX2C03S
Percent Solids for Sample: 100 Spiked ID: J1323-21 Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	6.0		1.9		4.9	83		CN



Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>LB93043</u>	Level:	<u>LOW</u>	SDG No.:	<u>LB93043</u>
Contract:	<u></u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>LB93043</u>
Matrix:	<u>WATER</u>	Sample ID:	<u>J1323-10</u>	Client ID:	<u>MX2C00D</u>
Percent Solids for Sample:	<u>0</u>	Duplicate ID	<u>J1323-11</u>	Percent Solids for Spike Sample:	<u>0</u>

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	ug/L	20	228		230		1		CN

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB93043 **Level:** LOW **SDG No.:** LB93043
Contract: **Lab Code:** CHEM **Case No.:** LB93043 **SAS No.:** LB93043
Matrix: Solid **Sample ID:** J1323-19 **Client ID:** MX2C03D
Percent Solids for Sample: 100 **Duplicate ID** J1323-20 **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	1.9		2.0		5		CN



Hit Summary Sheet
SW-846

SDG No.:

LB93043

Order ID:

LB93043

Client:

LB93043

Project ID:

LB93043

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : J1323-10	MX2C00 MX2C00	WATER	Cyanide	228.000		2.1	5	10	ug/L
Client ID : J1323-19	MX2C03 MX2C03								
		Solid	Cyanide	1.900		0.11	0.25	0.5	mg/kg