

Daily Analysis Runlog For Sequence/QC Batch ID # LB94437

Review By		Review On				
SubDirectory		LB94437		Test : Cyanide		

STD. NAME	STD REF.#
ICAL Standard	WP63423,WP63422,WP63421,WP63420,WP63419,WP63418
ICV Standard	WP63425
CCV Standard	WP63424
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP63479,WP59958,WP58653

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	04/06/18 11:24		OK
2	S5.0	S5.0	CAL2	04/06/18 11:24		OK
3	S10.0	S10.0	CAL3	04/06/18 11:24		OK
4	S100.0	S100.0	CAL4	04/06/18 11:24		OK
5	S250.0	S250.0	CAL5	04/06/18 11:24		OK
6	S500.0	S500.0	CAL6	04/06/18 11:24		OK
7	ICV	ICV	ICV	04/06/18 11:51		OK
8	ICB	ICB	ICB	04/06/18 11:51		OK
9	CCV001	CCV001	CCV	04/06/18 11:51		OK
10	CCB001	CCB001	CCB	04/06/18 11:51		OK
11	PB108039BL	PBW005	MB	04/06/18 11:51		OK
12	J2215-01	RW-12D-20180328	SAM	04/06/18 11:51		OK
13	J2215-01DUP	RW-12D-20180328D	DUP	04/06/18 11:51		OK
14	J2215-01MS	RW-12D-20180328S	MS	04/06/18 11:51		OK
15	J2215-02	RW-12I-20180328	SAM	04/06/18 11:51		OK
16	J2252-01	FIELD-BLANK-20180	SAM	04/06/18 12:11		OK
17	CCV002	CCV002	CCV	04/06/18 12:11		OK
18	CCB002	CCB002	CCB	04/06/18 12:11		OK



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Report of Analysis

Client:		Date Collected:	3/28/2018 12:00:00 AM
Project:	LB94437	Date Received:	4/4/2018 12:00:00 AM
Client Sample ID:	RW-12D-20180328	SDG No.:	LB94437
Lab Sample ID:	J2215-01	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	U	1	2.1	5	10	ug/L	04/05/2018	04/06/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	3/28/2018 12:00:00 AM
Project:	LB94437	Date Received:	4/4/2018 12:00:00 AM
Client Sample ID:	RW-12I-20180328	SDG No.:	LB94437
Lab Sample ID:	J2215-02	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	U	1	2.1	5	10	ug/L	04/05/2018	04/06/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/4/2018 12:00:00 AM
Project:	LB94437	Date Received:	4/5/2018 12:00:00 AM
Client Sample ID:	FIELD-BLANK-20180404	SDG No.:	LB94437
Lab Sample ID:	J2252-01	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	U	1	2.1	5	10	ug/L	04/05/2018	04/06/2018	ISM02.4_CN



Report of Analysis

Client:		Date Collected:	4/4/2018 12:00:00 AM
Project:	LB94437	Date Received:	4/5/2018 12:00:00 AM
Client Sample ID:	FIELD-BLANK-20180404	SDG No.:	LB94437
Lab Sample ID:	J2252-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB94437**SDG No.:** LB94437**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB94437**SAS No.:** LB94437**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	94.3	99	95	0	85 - 115	CN	04/06/2018	11:51	LB94437



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94437

SDG No.: LB94437

Contract: _____ Lab Code: CHEM

Case No.: LB94437

SAS No.: LB94437

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	04/06/2018	11:51	LB94437
CCV002	Cyanide	260	250	104	0	85 - 115	CN	04/06/2018	12:11	LB94437



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94437 **SDG No.:** LB94437
Contract: **Lab Code:** CHEM **Case No.:** LB94437 **SAS No.:** LB94437

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB	Cyanide	2.1	+/-10.0	U	5.0	10.0	CN	04/06/2018	11:51	LB94437



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94437

SDG No.: LB94437

Contract:

Lab Code: CHEM

Case No.: LB94437

SAS No.: LB94437

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	04/06/2018	11:51	LB94437
CCB002	Cyanide	2.1	+/-10.0	U	5.0	10.0	CN	04/06/2018	12:11	LB94437



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94437

SDG No.: LB94437

Contract: Lab Code: CHEM

Case No.: LB94437

SAS No.: LB94437

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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SDG No.: LB94437

Instrument: CN

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB108039BL		WATER		Batch Number:		PB108039		Prep Date:	04/05/2018	
	Cyanide	2.1	<10	U	5.0	10	CN	04/06/2018	11:51	LB94437



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB94437 level: low sdg no.: LB94437
contract: lab code: CHEM case no.: LB94437 sas no.: LB94437
matrix: WATER sample id: J2215-01 client id: RW-12D-20180328S
Percent Solids for Sample: 0 Spiked ID: J2215-01MS 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	84.3		10.0	U	100	84		CN

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB94437 **Level:** LOW **SDG No.:** LB94437
Contract: _____ **Lab Code:** CHEM **Case No.:** LB94437 **SAS No.:** LB94437
Matrix: WATER **Sample ID:** J2215-01 **Client ID:** RW-12D-20180328D
Percent Solids for Sample: 0 **Duplicate ID** J2215-01DUP **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	U		CN

Metals
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SAMPLE PREPARATION SUMMARY

Client: <u>LB94437</u>	SDG No.: <u>LB94437</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB94437</u>	SAS No.: <u>LB94437</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB108039							
PB108039BL	PBW005	MB	WATER	04/06/2018	50.0	50.0	
J2215-01	RW-12D-20180328	SAM	WATER	04/06/2018	50.0	50.0	
J2215-01DUP	RW-12D-20180328D	DUP	WATER	04/06/2018	50.0	50.0	
J2215-01MS	RW-12D-20180328S	MS	WATER	04/06/2018	50.0	50.0	
J2215-02	RW-12I-20180328	SAM	WATER	04/06/2018	50.0	50.0	
J2252-01	FIELD-BLANK-20180404	SAM	WATER	04/06/2018	50.0	50.0	



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

[illegible]

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB94437 Contract: _____
Lab Code: CHEM Case No.: LB94437 MA No.: _____ SDG No.: LB94437
Instrument ID: CN Start Date: 04/06/2018
Analytical Method: _____ Run Batch: LB94437.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0	0	5	3.8	-24	10	8.9	-11

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB94437 Contract: _____
Lab Code: CHEM Case No.: LB94437 MA No.: _____ SDG No.: LB94437
Instrument ID: CN Start Date: 04/06/2018
Analytical Method: _____ Run Batch: LB94437.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	99.3	-1	250	257	3	500	497	-1