

Daily Analysis Runlog For Sequence/QC Batch ID # LB95041

Review By		Review On				
SubDirectory		LB95041		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64045,WP64046,WP64047,WP64048,WP64049,WP64050				
ICV Standard		WP64063				
CCV Standard		WP64051				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP64166,WP59958,WP63372				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	05/02/18 13:14		OK
2	S5.0	S5.0	CAL2	05/02/18 13:14		OK
3	S10.0	S10.0	CAL3	05/02/18 13:14		OK
4	S100.0	S100.0	CAL4	05/02/18 13:14		OK
5	S250.0	S250.0	CAL5	05/02/18 13:14		OK
6	S500.0	S500.0	CAL6	05/02/18 13:14		OK
7	ICV	ICV	ICV	05/02/18 13:42		OK
8	ICB	ICB	ICB	05/02/18 13:42		OK
9	CCV001	CCV001	CCV	05/02/18 13:42		OK
10	CCB001	CCB001	CCB	05/02/18 13:42		OK
11	PB108695BL	PBS006	MB	05/02/18 13:42		OK
12	J2606-22	MX2C82	SAM	05/02/18 13:42		OK
13	J2606-23	MX2C82D	DUP	05/02/18 13:42		OK
14	J2606-24	MX2C82S	MS	05/02/18 13:42		OK
15	PB108696BL	PBW005	MB	05/02/18 13:42		OK
16	J2606-10	MX2C78	SAM	05/02/18 13:42		OK
17	J2606-11	MX2C78D	DUP	05/02/18 13:42		OK
18	J2606-12	MX2C78S	MS	05/02/18 13:47		OK
19	CCV002	CCV002	CCV	05/02/18 13:47		OK
20	CCB002	CCB002	CCB	05/02/18 13:47		OK



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Report of Analysis

Client:		Date Collected:	4/25/2018 12:00:00 AM
Project:	LB95041	Date Received:	4/26/2018 12:00:00 AM
Client Sample ID:	MX2C78	SDG No.:	LB95041
Lab Sample ID:	J2606-10	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	283		1	2.1	5	10	ug/L	04/27/2018	05/02/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/25/2018 12:00:00 AM
Project:	LB95041	Date Received:	4/26/2018 12:00:00 AM
Client Sample ID:	MX2C82	SDG No.:	LB95041
Lab Sample ID:	J2606-22	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	2.0		1	0.11	0.012	0.49	mg/kg	04/27/2018	05/02/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/25/2018 12:00:00 AM
Project:	LB95041	Date Received:	4/26/2018 12:00:00 AM
Client Sample ID:	MX2C82	SDG No.:	LB95041
Lab Sample ID:	J2606-22	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

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95041

SDG No.: LB95041

Contract: _____ **Lab Code:** CHEM

Case No.: LB95041 **SAS No.:** LB95041

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	95.4	99	96	0	85 - 115	CN	05/02/2018	13:42	LB95041

Metals**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB95041**SDG No.:** LB95041**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB95041**SAS No.:** LB95041**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	239	250	96	0	85 - 115	CN	05/02/2018	13:42	LB95041
CCV002	Cyanide	257	250	103	0	85 - 115	CN	05/02/2018	13:47	LB95041



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95041 **SDG No.:** LB95041
Contract: **Lab Code:** CHEM **Case No.:** LB95041 **SAS No.:** LB95041

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	05/02/2018	13:42	LB95041



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95041

SDG No.: LB95041

Contract:

Lab Code: CHEM

Case No.: LB95041

SAS No.: LB95041

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	05/02/2018	13:42	LB95041
CCB002	Cyanide	0.042	+/-10.0	U	5.0	10.0	CN	05/02/2018	13:47	LB95041



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95041

SDG No.: LB95041

Contract: Lab Code: CHEM

Case No.: LB95041

SAS No.: LB95041

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: LB95041

SDG No.: LB95041

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB108695BL	SOLID		Batch Number:		PB108695		Prep Date:		04/27/2018	
	Cyanide	0.11	<0.49	U	0.012	0.49	CN	05/02/2018	13:42	LB95041
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB108696BL	WATER		Batch Number:		PB108696		Prep Date:		04/27/2018	
	Cyanide	2.1	<10	U	5.0	10	CN	05/02/2018	13:42	LB95041



metals
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MATRIX SPIKE SUMMARY

client: LB95041 level: low sdg no.: LB95041
contract: lab code: CHEM case no.: LB95041 sas no.: LB95041
matrix: WATER sample id: J2606-10 client id: MX2C78S
Percent Solids for Sample: 0 Spiked ID: J2606-12 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	384		283		100	101		CN



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB95041 level: low sdg no.: LB95041
contract: lab code: CHEM case no.: LB95041 sas no.: LB95041
matrix: Solid sample id: J2606-22 client id: MX2C82S
Percent Solids for Sample: 100 Spiked ID: J2606-24 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	6.3		2.0		4.7	91		CN



Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB95041 Level: LOW SDG No.: LB95041
Contract: _____ Lab Code: CHEM Case No.: LB95041 SAS No.: LB95041
Matrix: WATER Sample ID: J2606-10 Client ID: MX2C78D
Percent Solids for Sample: 0 Duplicate ID J2606-11 Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	ug/L	20	283		284		0		CN

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

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB95041 **Level:** LOW **SDG No.:** LB95041
Contract: **Lab Code:** CHEM **Case No.:** LB95041 **SAS No.:** LB95041
Matrix: Solid **Sample ID:** J2606-22 **Client ID:** MX2C82D
Percent Solids for Sample: 100 **Duplicate ID** J2606-23 **Percent Solids for Spike Sample:** 100

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



Hit Summary Sheet
SW-846

SDG No.:

LB95041

Order ID:

LB95041

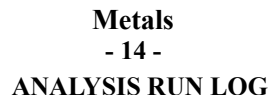
Client:

LB95041

Project ID:

LB95041

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : J2606-10	MX2C78								
	MX2C78	WATER	Cyanide	283.000		2.1	5	10	ug/L
Client ID : J2606-22	MX2C82								
	MX2C82	Solid	Cyanide	2.000		0.11	0.245	0.49	mg/kg



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

[illegible]

Metals
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SAMPLE PREPARATION SUMMARY

Client: <u>LB95041</u>	SDG No.: <u>LB95041</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB95041</u>	SAS No.: <u>LB95041</u>

						Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date				
Batch Number: PB108695								
PB108695BL	PBS006	MB	SOLID	05/02/2018		1.02	50.0	100.00
J2606-22	MX2C82	SAM	SOLID	05/02/2018		1.03	50.0	100.00
J2606-23	MX2C82D	DUP	SOLID	05/02/2018		1.05	50.0	100.00
J2606-24	MX2C82S	MS	SOLID	05/02/2018		1.06	50.0	100.00

Metals
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SAMPLE PREPARATION SUMMARY

Client:	LB95041	SDG No.:	LB95041
Contract:		Lab Code:	CHEM
		Method:	
		Case No.:	LB95041
		SAS No.:	LB95041

						Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date				
Batch Number: PB108696								
PB108696BL	PBW005	MB	WATER	05/02/2018		50.0	50.0	
J2606-10	MX2C78	SAM	WATER	05/02/2018		50.0	50.0	
J2606-11	MX2C78D	DUP	WATER	05/02/2018		50.0	50.0	
J2606-12	MX2C78S	MS	WATER	05/02/2018		50.0	50.0	

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB95041 Contract: _____
Lab Code: CHEM Case No.: LB95041 MA No.: _____ SDG No.: LB95041
Instrument ID: CN Start Date: 05/02/2018
Analytical Method: _____ Run Batch: LB95041.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0	0	5	4.2	-16	10	9.3	-7

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB95041 Contract: _____
Lab Code: CHEM Case No.: LB95041 MA No.: _____ SDG No.: LB95041
Instrument ID: CN Start Date: 05/02/2018
Analytical Method: _____ Run Batch: LB95041.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	100	0	250	255	2	500	498	0