

Daily Analysis Runlog For Sequence/QC Batch ID # LB94840

Review By		Review On				
SubDirectory		LB94840		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63916,WP63917,WP63918,WP63919,WP63920,WP63921,WP63922				
ICV Standard		W1542				
CCV Standard		WP63923				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP63925,WP59958,WP60878				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	04/24/18 08:36		
2	5.0PPBCN	5.0PPBCN	CAL2	04/24/18 08:36		
3	10PPBCN	10PPBCN	CAL3	04/24/18 08:36		
4	50PPBCN	50PPBCN	CAL4	04/24/18 08:36		
5	100PPBCN	100PPBCN	CAL5	04/24/18 08:36		
6	250PPBCN	250PPBCN	CAL6	04/24/18 08:36		
7	500PPBCN	500PPBCN	CAL7	04/24/18 08:36		
8	ICV1	ICV1	ICV	04/24/18 11:32		
9	ICB1	ICB1	ICB	04/24/18 11:32		
10	CCV1	CCV1	CCV	04/24/18 11:32		
11	CCB1	CCB1	CCB	04/24/18 11:32		
12	PB108518BL	PB108518BL	MB	04/24/18 11:32		
13	PB108518BS	PB108518BS	LCS	04/24/18 11:32		
14	J2490-01	MDP-B-3-0-6	SAM	04/24/18 11:32		
15	J2490-01DUP	MDP-B-3-0-6DUP	DUP	04/24/18 11:32		
16	J2490-01MS	MDP-B-3-0-6MS	MS	04/24/18 11:32		
17	J2490-01MSD	MDP-B-3-0-6MSD	MSD	04/24/18 11:32		
18	J2490-02	MDP-B-3-18-20	SAM	04/24/18 11:32		
19	CCV2	CCV2	CCV	04/24/18 11:35		
20	CCB2	CCB2	CCB	04/24/18 11:35		



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Report of Analysis

Client:		Date Collected:	4/19/2018 12:00:00 AM
Project:	LB94840	Date Received:	4/19/2018 12:00:00 AM
Client Sample ID:	MDP-B-3-0-6	SDG No.:	LB94840
Lab Sample ID:	J2490-01	Matrix:	Solid
Level (low/med):	low	% Solid:	87.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.013	U	1	0.037		0.28	mg/Kg	04/23/2018	04/24/2018	9014



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Report of Analysis

Client:		Date Collected:	4/19/2018 12:00:00 AM
Project:	LB94840	Date Received:	4/19/2018 12:00:00 AM
Client Sample ID:	MDP-B-3-18-20	SDG No.:	LB94840
Lab Sample ID:	J2490-02	Matrix:	Solid
Level (low/med):	low	% Solid:	84.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	-0.023	U	1	0.036		0.27	mg/Kg	04/23/2018	04/24/2018	9014



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Report of Analysis

Client:		Date Collected:	4/19/2018 12:00:00 AM
Project:	LB94840	Date Received:	4/19/2018 12:00:00 AM
Client Sample ID:	MDP-B-3-18-20	SDG No.:	LB94840
Lab Sample ID:	J2490-02	Matrix:	Solid
Level (low/med):	low	% Solid:	84.3

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



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94840

SDG No.: LB94840

Contract: _____

Lab Code: CHEM

Case No.: LB94840

SAS No.: LB94840

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Cyanide	0.097	0.099	98		85 - 115		04/24/2018	11:32	lb94840



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94840

SDG No.: LB94840

Contract: _____ Lab Code: CHEM

Case No.: LB94840

SAS No.: LB94840

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Cyanide	0.25	0.25	100		90 - 110		04/24/2018	11:32	lb94840
CCV2	Cyanide	0.26	0.25	104		90 - 110		04/24/2018	11:35	lb94840



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94840

SDG No.: LB94840

Contract:

Lab Code: CHEM

Case No.: LB94840

SAS No.: LB94840

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00027	+/-0.005	U		0.005		04/24/2018	11:32	1b94840
CCB2	Cyanide	-0.00033	+/-0.005	U		0.005		04/24/2018	11:35	1b94840



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB94840

SDG No.:

LB94840

Contract:

Lab Code:

CHEM

Case No.:

LB94840

SAS No.:

LB94840

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: LB94840

SDG No.: LB94840

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB108518BL		SOLID		Batch Number:		PB108518		Prep Date:	04/23/2018	
	Cyanide	-0.012	<0.25	U		0.25		04/24/2018	11:32	lb94840



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- 5a -
MATRIX SPIKE SUMMARY

client: LB94840 level: low sdg no.: LB94840
contract: lab code: CHEM case no.: LB94840 sas no.: LB94840
matrix: Solid sample id: J2490-01 client id: MDP-B-3-0-6MS
Percent Solids for Sample: 87.4 Spiked ID: J2490-01MS Percent Solids for Spike Sample: 87.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.037	U	2.2	86.4		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB94840 level: low sdg no.: LB94840
contract: lab code: CHEM case no.: LB94840 sas no.: LB94840
matrix: Solid sample id: J2490-01 client id: MDP-B-3-0-6MSD
Percent Solids for Sample: 87.4 Spiked ID: J2490-01MSD Percent Solids for Spike Sample: 87.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.037	U	2.2	86.4		

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DUPLICATE SAMPLE SUMMARY

Client: LB94840 **Level:** LOW **SDG No.:** LB94840
Contract: **Lab Code:** CHEM **Case No.:** LB94840 **SAS No.:** LB94840
Matrix: Solid **Sample ID:** J2490-01 **Client ID:** MDP-B-3-0-6DUP
Percent Solids for Sample: 87.4 **Duplicate ID** J2490-01DUP **Percent Solids for Spike Sample:** 87.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.037	U	0.012	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB94840 **Level:** LOW **SDG No.:** LB94840
Contract: **Lab Code:** CHEM **Case No.:** LB94840 **SAS No.:** LB94840
Matrix: Solid **Sample ID:** J2490-01MS **Client ID:** MDP-B-3-0-6MSD
Percent Solids for Sample: 87.4 **Duplicate ID** J2490-01MSD **Percent Solids for Spike Sample:** 87.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.9		1.9		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94840

SDG No.: LB94840

Contract:

Lab Code: CHEM

Case No.: LB94840

SAS No.: LB94840

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB108518BS Cyanide	mg/Kg	4.8	4.8		100	85 - 115	