

Daily Analysis Runlog For Sequence/QC Batch ID # LB94672

Review By		Review On				
SubDirectory		LB94672		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63760,WP63761,WP63762,WP63763,WP63764,WP63765,WP63766				
ICV Standard		W1542				
CCV Standard		N/A				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP63769,WP59958,WP60878				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	04/17/18 09:52		
2	5.0PPBCN	5.0PPBCN	CAL2	04/17/18 09:52		
3	10PPBCN	10PPBCN	CAL3	04/17/18 09:52		
4	50PPBCN	50PPBCN	CAL4	04/17/18 09:52		
5	100PPBCN	100PPBCN	CAL5	04/17/18 09:52		
6	250PPBCN	250PPBCN	CAL6	04/17/18 09:52		
7	500PPBCN	500PPBCN	CAL7	04/17/18 09:52		
8	ICV1	ICV1	ICV	04/17/18 10:28		
9	ICB1	ICB1	ICB	04/17/18 10:28		
10	CCV1	CCV1	CCV	04/17/18 10:28		
11	CCB1	CCB1	CCB	04/17/18 10:28		
12	PB108293BL	PB108293BL	MB	04/17/18 10:28		
13	PB108293BS	PB108293BS	LCS	04/17/18 10:28		
14	J2387-01	20180239-COMPOS	SAM	04/17/18 10:28		
15	J2387-01DUP	20180239-COMPOS	DUP	04/17/18 10:28		
16	J2387-01MS	20180239-COMPOS	MS	04/17/18 10:28		
17	J2387-01MSD	20180239-COMPOS	MSD	04/17/18 10:36		
18	J2387-02	20180240-COMPOS	SAM	04/17/18 10:36		
19	J2387-03	20180241-COMPOS	SAM	04/17/18 10:36		
20	CCV2	CCV2	CCV	04/17/18 10:36		
21	CCB2	CCB2	CCB	04/17/18 10:36		

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SubDirectory		LB94672	Test : Cyanide			
STD. NAME		STD REF.#				
ICAL Standard		WP63760,WP63761,WP63762,WP63763,WP63764,WP63765,WP63766				
ICV Standard		W1542				
CCV Standard		N/A				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP63769,WP59958,WP60878				
22	J2387-04	20180242-COMPOS	SAM	04/17/18 10:36		
23	J2387-05	20180243-COMPOS	SAM	04/17/18 10:36		
24	J2387-06	20180247-FIELD-DU	SAM	04/17/18 10:36		
25	J2387-07	20180244-AMEND-C	SAM	04/17/18 10:36		
26	J2387-08	20180245-AMEND-C	SAM	04/17/18 10:36		
27	J2387-09	20180246-AMEND-C	SAM	04/17/18 10:36		
28	LOWPB108293	LOWPB108293	SAM	04/17/18 11:10		
29	HIGHPB108293	HIGHPB108293	SAM	04/17/18 11:10		
30	CCV3	CCV3	CCV	04/17/18 11:10		
31	CCB3	CCB3	CCB	04/17/18 11:10		



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Report of Analysis

Client:		Date Collected:	
Project:	LB94672	Date Received:	
Client Sample ID:	HIGHPB108293	SDG No.:	LB94672
Lab Sample ID:	HIGHPB108293	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	0.52	OR	1	0.003		0.005	mg/L		04/17/2018	9012B

Report of Analysis

Client:		Date Collected:	4/11/2018 12:00:00 AM
Project:	LB94672	Date Received:	4/13/2018 12:00:00 AM
Client Sample ID:	20180239-COMPOSITE-A	SDG No.:	LB94672
Lab Sample ID:	J2387-01	Matrix:	Solid
Level (low/med):	low	% Solid:	55.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.026	U	1	0.058		0.44	mg/Kg	04/16/2018	04/17/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/11/2018 12:00:00 AM
Project:	LB94672	Date Received:	4/13/2018 12:00:00 AM
Client Sample ID:	20180240-COMPOSITE-B	SDG No.:	LB94672
Lab Sample ID:	J2387-02	Matrix:	Solid
Level (low/med):	low	% Solid:	42.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.055	U	1	0.077		0.58	mg/Kg	04/16/2018	04/17/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/11/2018 12:00:00 AM
Project:	LB94672	Date Received:	4/13/2018 12:00:00 AM
Client Sample ID:	20180241-COMPOSITE-C	SDG No.:	LB94672
Lab Sample ID:	J2387-03	Matrix:	Solid
Level (low/med):	low	% Solid:	43.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.22	J	1	0.074		0.56	mg/Kg	04/16/2018	04/17/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/11/2018 12:00:00 AM
Project:	LB94672	Date Received:	4/13/2018 12:00:00 AM
Client Sample ID:	20180242-COMPOSITE-D	SDG No.:	LB94672
Lab Sample ID:	J2387-04	Matrix:	Solid
Level (low/med):	low	% Solid:	55.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.058		0.44	mg/Kg	04/16/2018	04/17/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/11/2018 12:00:00 AM
Project:	LB94672	Date Received:	4/13/2018 12:00:00 AM
Client Sample ID:	20180243-COMPOSITE-E	SDG No.:	LB94672
Lab Sample ID:	J2387-05	Matrix:	Solid
Level (low/med):	low	% Solid:	51.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.039	U	1	0.063		0.47	mg/Kg	04/16/2018	04/17/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/11/2018 12:00:00 AM
Project:	LB94672	Date Received:	4/13/2018 12:00:00 AM
Client Sample ID:	20180247-FIELD-DUPLICATE	SDG No.:	LB94672
Lab Sample ID:	J2387-06	Matrix:	Solid
Level (low/med):	low	% Solid:	43.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.03	U	1	0.074		0.56	mg/Kg	04/16/2018	04/17/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/11/2018 12:00:00 AM
Project:	LB94672	Date Received:	4/13/2018 12:00:00 AM
Client Sample ID:	20180244-AMEND-COMP-A	SDG No.:	LB94672
Lab Sample ID:	J2387-07	Matrix:	Solid
Level (low/med):	low	% Solid:	56.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.13	J	1	0.055		0.42	mg/Kg	04/16/2018	04/17/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/11/2018 12:00:00 AM
Project:	LB94672	Date Received:	4/13/2018 12:00:00 AM
Client Sample ID:	20180245-AMEND-COMP-B	SDG No.:	LB94672
Lab Sample ID:	J2387-08	Matrix:	Solid
Level (low/med):	low	% Solid:	48.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.076	J	1	0.063		0.48	mg/Kg	04/16/2018	04/17/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/11/2018 12:00:00 AM
Project:	LB94672	Date Received:	4/13/2018 12:00:00 AM
Client Sample ID:	20180246-AMEND-COMP-C	SDG No.:	LB94672
Lab Sample ID:	J2387-09	Matrix:	Solid
Level (low/med):	low	% Solid:	46.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.19	J	1	0.066		0.5	mg/Kg	04/16/2018	04/17/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB94672	Date Received:	
Client Sample ID:	LOWPB108293	SDG No.:	LB94672
Lab Sample ID:	LOWPB108293	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	0.01		1	0.003		0.005	mg/L		04/17/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB94672	Date Received:	
Client Sample ID:	LOWPB108293	SDG No.:	LB94672
Lab Sample ID:	LOWPB108293	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

Sample ID	Analyte	Result	True Value	%	Acceptance	M	Analysis	Analysis	Run
		mg/L		Recovery	Window (%R)		Date	Time	Number
ICV1	Cyanide	0.095	0.099	96	85 - 115		04/17/2018	10:28	LB94672



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94672

SDG No.: LB94672

Contract: _____ Lab Code: CHEM

Case No.: LB94672

SAS No.: LB94672

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	0.23	0.25	92		90 - 110		04/17/2018	10:28	LB94672
CCV2	Cyanide	0.24	0.25	96		90 - 110		04/17/2018	10:36	LB94672
CCV3	Cyanide	0.26	0.25	104		90 - 110		04/17/2018	11:10	LB94672



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94672

SDG No.: LB94672

Contract:

Lab Code: CHEM

Case No.: LB94672

SAS No.: LB94672

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00061	+/-0.005	U		0.005		04/17/2018	10:28	LB94672

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00094	+/-0.005	U		0.005		04/17/2018	10:28	LB94672
CCB2	Cyanide	-0.00036	+/-0.005	U		0.005		04/17/2018	10:36	LB94672
CCB3	Cyanide	-0.00043	+/-0.005	U		0.005		04/17/2018	11:10	LB94672



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94672

SDG No.: LB94672

Contract: Lab Code: CHEM

Case No.: LB94672

SAS No.: LB94672

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

Client: LB94672

SDG No.: LB94672

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
PB108293BL		SOLID		Batch Number:		PB108293		Prep Date:	04/16/2018	
	Cyanide	-0.013	<0.25	U		0.25		04/17/2018	10:28	LB94672

GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB94672 level: low sdg no.: LB94672
contract: lab code: CHEM case no.: LB94672 sas no.: LB94672
matrix: Solid sample id: J2387-01 client id: 20180239-COMPOSITE-AMS
Percent Solids for Sample: 55.7 Spiked ID: J2387-01MS Percent Solids for Spike Sample: 55.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	0.66		0.058	U	3.4	19.4	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB94672 level: low sdg no.: LB94672
contract: lab code: CHEM case no.: LB94672 sas no.: LB94672
matrix: Solid sample id: J2387-01 client id: 20180239-COMPOSITE-AMSD
Percent Solids for Sample: 55.7 Spiked ID: J2387-01MSD Percent Solids for Spike Sample: 55.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	0.63		0.058	U	3.5	18	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB94672 **Level:** LOW **SDG No.:** LB94672
Contract: **Lab Code:** CHEM **Case No.:** LB94672 **SAS No.:** LB94672
Matrix: Solid **Sample ID:** J2387-01 **Client ID:** 20180239-COMPOSITE-ADUP
Percent Solids for Sample: 55.7 **Duplicate ID** J2387-01DUP **Percent Solids for Spike Sample:** 55.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.058	U	-0.033	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94672 **Level:** LOW **SDG No.:** LB94672
Contract: **Lab Code:** CHEM **Case No.:** LB94672 **SAS No.:** LB94672
Matrix: Solid **Sample ID:** J2387-01MS **Client ID:** 20180239-COMPOSITE-AMSD
Percent Solids for Sample: 55.7 **Duplicate ID** J2387-01MSD **Percent Solids for Spike Sample:** 55.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.66		0.63		5		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94672

SDG No.: LB94672

Contract:

Lab Code: CHEM

Case No.: LB94672

SAS No.: LB94672

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB108293BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	