

Daily Analysis Runlog For Sequence/QC Batch ID # LB94094

Review By

SubDirectory

Review On

Test : Cyanide

LB94094

STD. NAME		STD REF.#				
ICAL Standard		WP62945,WP62946,WP62947,WP62948,WP62949,WP62950,WP62951				
ICV Standard		W1542				
CCV Standard		WP62952				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP62954,WP59958,WP60878				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/23/18 07:36		OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/23/18 07:36		OK
3	10PPBCN	10PPBCN	CAL3	03/23/18 07:36		OK
4	50PPBCN	50PPBCN	CAL4	03/23/18 07:36		OK
5	100PPBCN	100PPBCN	CAL5	03/23/18 07:36		OK
6	250PPBCN	250PPBCN	CAL6	03/23/18 07:36		OK
7	500PPBCN	500PPBCN	CAL7	03/23/18 07:36		OK
8	ICV1	ICV1	ICV	03/23/18 08:09		OK
9	ICB1	ICB1	ICB	03/23/18 08:09		OK
10	CCV1	CCV1	CCV	03/23/18 08:09		OK
11	CCB1	CCB1	CCB	03/23/18 08:09		OK
12	PB107577BL	PB107577BL	MB	03/23/18 08:09		OK
13	PB107577BS	PB107577BS	LCS	03/23/18 08:09		OK
14	LOWPB107577	LOWPB107577	SAM	03/23/18 08:10		OK
15	HIGHPB107577	HIGHPB107577	SAM	03/23/18 08:10		OK
16	J1756-07MS	OR-03-032018-AMS	MS	03/23/18 08:10		OK
17	J1756-07MSD	OR-03-032018-AMSD	MSD	03/23/18 08:17		OK
18	J1756-09	OR-03-032018-B	SAM	03/23/18 08:17		OK
19	J2009-01	S-1	SAM	03/23/18 08:17		OK
20	CCV2	CCV2	CCV	03/23/18 08:17		OK
21	CCB2	CCB2	CCB	03/23/18 08:17		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB94094

Review By			Review On			
SubDirectory		LB94094		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP62945,WP62946,WP62947,WP62948,WP62949,WP62950,WP62951				
ICV Standard		W1542				
CCV Standard		WP62952				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP62954,WP59958,WP60878				
22	J2009-02	S-2	SAM	03/23/18 08:17		OK
23	J2009-03	S-3	SAM	03/23/18 08:17		OK
24	PB107578BL	PB107578BL	MB	03/23/18 08:17		OK
25	PB107578BS	PB107578BS	LCS	03/23/18 08:17		OK
26	J1990-01	WELL-A	SAM	03/23/18 08:17		OK
27	J1990-01DUP	WELL-ADUP	DUP	03/23/18 08:17		OK
28	J1990-01MS	WELL-AMS	MS	03/23/18 08:24		OK
29	J1990-01MSD	WELL-AMSD	MSD	03/23/18 08:24		OK
30	J1992-01	DRUM-1-4-A	SAM	03/23/18 08:24		OK
31	J1993-04	TP-6-MH-A	SAM	03/23/18 08:24		OK
32	CCV3	CCV3	CCV	03/23/18 08:24		OK
33	CCB3	CCB3	CCB	03/23/18 08:24		OK
34	J2002-04	TP-4-MH-B	SAM	03/23/18 08:24		OK
35	J1756-07	OR-03-032018-A	SAM	03/23/18 08:40		OK
36	J1756-07DUP	OR-03-032018-ADUP	DUP	03/23/18 08:40		OK
37	CCV4	CCV4	CCV	03/23/18 08:40		OK
38	CCB4	CCB4	CCB	03/23/18 08:40		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB94094	Date Received:	
Client Sample ID:	HIGHPB107577	SDG No.:	LB94094
Lab Sample ID:	HIGHPB107577	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	0.49		1	0.003		0.005	mg/L		03/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/20/2018 12:00:00 AM
Project:	LB94094	Date Received:	3/20/2018 12:00:00 AM
Client Sample ID:	OR-03-032018-A	SDG No.:	LB94094
Lab Sample ID:	J1756-07	Matrix:	Solid
Level (low/med):	low	% Solid:	93.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.066	J	1	0.034		0.26	mg/Kg	03/22/2018	03/23/2018	9012B

Report of Analysis

Client:		Date Collected:	3/20/2018 12:00:00 AM
Project:	LB94094	Date Received:	3/20/2018 12:00:00 AM
Client Sample ID:	OR-03-032018-B	SDG No.:	LB94094
Lab Sample ID:	J1756-09	Matrix:	Solid
Level (low/med):	low	% Solid:	89.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.056	J	1	0.037		0.28	mg/Kg	03/22/2018	03/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/20/2018 12:00:00 AM
Project:	LB94094	Date Received:	3/20/2018 12:00:00 AM
Client Sample ID:	WELL-A	SDG No.:	LB94094
Lab Sample ID:	J1990-01	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	0.0014	U	1	0.003		0.005	mg/L	03/22/2018	03/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/20/2018 12:00:00 AM
Project:	LB94094	Date Received:	3/20/2018 12:00:00 AM
Client Sample ID:	DRUM-1-4-A	SDG No.:	LB94094
Lab Sample ID:	J1992-01	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	0.00065	U	1	0.003		0.005	mg/L	03/22/2018	03/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/19/2018 12:00:00 AM
Project:	LB94094	Date Received:	3/20/2018 12:00:00 AM
Client Sample ID:	TP-6-MH-A	SDG No.:	LB94094
Lab Sample ID:	J1993-04	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	0.00083	U	1	0.003		0.005	mg/L	03/22/2018	03/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/20/2018 12:00:00 AM
Project:	LB94094	Date Received:	3/20/2018 12:00:00 AM
Client Sample ID:	TP-4-MH-B	SDG No.:	LB94094
Lab Sample ID:	J2002-04	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	0.0088		1	0.003		0.005	mg/L	03/22/2018	03/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/20/2018 12:00:00 AM
Project:	LB94094	Date Received:	3/21/2018 12:00:00 AM
Client Sample ID:	S-1	SDG No.:	LB94094
Lab Sample ID:	J2009-01	Matrix:	Solid
Level (low/med):	low	% Solid:	82.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.14	J	1	0.039		0.3	mg/Kg	03/22/2018	03/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/20/2018 12:00:00 AM
Project:	LB94094	Date Received:	3/21/2018 12:00:00 AM
Client Sample ID:	S-2	SDG No.:	LB94094
Lab Sample ID:	J2009-02	Matrix:	Solid
Level (low/med):	low	% Solid:	81.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.072	J	1	0.039		0.3	mg/Kg	03/22/2018	03/23/2018	9012B

Report of Analysis

Client:		Date Collected:	3/20/2018 12:00:00 AM
Project:	LB94094	Date Received:	3/21/2018 12:00:00 AM
Client Sample ID:	S-3	SDG No.:	LB94094
Lab Sample ID:	J2009-03	Matrix:	Solid
Level (low/med):	low	% Solid:	82.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.13	J	1	0.038		0.29	mg/Kg	03/22/2018	03/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB94094	Date Received:	
Client Sample ID:	LOWPB107577	SDG No.:	LB94094
Lab Sample ID:	LOWPB107577	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	0.011		1	0.003		0.005	mg/L		03/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB94094	Date Received:	
Client Sample ID:	LOWPB107577	SDG No.:	LB94094
Lab Sample ID:	LOWPB107577	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



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94094

SDG No.: LB94094

Contract: _____ Lab Code: CHEM

Case No.: LB94094

SAS No.: LB94094

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	0.24	0.25	96		90 - 110		03/23/2018	08:09	LB94094
CCV2	Cyanide	0.24	0.25	96		90 - 110		03/23/2018	08:17	LB94094
CCV3	Cyanide	0.24	0.25	96		90 - 110		03/23/2018	08:24	LB94094
CCV4	Cyanide	0.25	0.25	100		90 - 110		03/23/2018	08:40	LB94094



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94094

SDG No.: LB94094

Contract:

Lab Code: CHEM

Case No.: LB94094

SAS No.: LB94094

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00053	+/-0.005	U		0.005		03/23/2018	08:09	LB94094



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94094

SDG No.: LB94094

Contract:

Lab Code: CHEM

Case No.: LB94094

SAS No.: LB94094

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00042	+/-0.005	U		0.005		03/23/2018	08:09	LB94094
CCB2	Cyanide	0.0008	+/-0.005	U		0.005		03/23/2018	08:17	LB94094
CCB3	Cyanide	0.00047	+/-0.005	U		0.005		03/23/2018	08:24	LB94094
CCB4	Cyanide	0.0007	+/-0.005	U		0.005		03/23/2018	08:40	LB94094



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94094

SDG No.: LB94094

Contract: Lab Code: CHEM

Case No.: LB94094

SAS No.: LB94094

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: LB94094

SDG No.: LB94094

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
PB107577BL	Cyanide	SOLID		Batch Number:		PB107577		Prep Date:	03/22/2018	
		0.022	<0.25	U		0.25		03/23/2018	08:09	LB94094
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB107578BL	Cyanide	WATER		Batch Number:		PB107578		Prep Date:	03/22/2018	
		0.00055	<0.005	U		0.005		03/23/2018	08:17	LB94094



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB94094 level: low sdg no.: LB94094
contract: lab code: CHEM case no.: LB94094 sas no.: LB94094
matrix: Solid sample id: J1756-07 client id: OR-03-032018-AMS
Percent Solids for Sample: 93.9 Spiked ID: J1756-07MS Percent Solids for Spike Sample: 93.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.066	J	2.1	78		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB94094 level: low sdg no.: LB94094
contract: lab code: CHEM case no.: LB94094 sas no.: LB94094
matrix: Solid sample id: J1756-07 client id: OR-03-032018-AMSD
Percent Solids for Sample: 93.9 Spiked ID: J1756-07MSD Percent Solids for Spike Sample: 93.9

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.066	J	2.1	83		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB94094 level: low sdg no.: LB94094
contract: lab code: CHEM case no.: LB94094 sas no.: LB94094
matrix: WATER sample id: J1990-01 client id: WELL-AMS
Percent Solids for Sample: 0 Spiked ID: J1990-01MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.033		0.003	U	0.04	82.5		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB94094 level: low sdg no.: LB94094
contract: lab code: CHEM case no.: LB94094 sas no.: LB94094
matrix: WATER sample id: J1990-01 client id: WELL-AMSD
Percent Solids for Sample: 0 Spiked ID: J1990-01MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.033		0.003	U	0.04	82.5		

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DUPLICATE SAMPLE SUMMARY

Client: LB94094 **Level:** LOW **SDG No.:** LB94094
Contract: **Lab Code:** CHEM **Case No.:** LB94094 **SAS No.:** LB94094
Matrix: Solid **Sample ID:** J1756-07 **Client ID:** OR-03-032018-ADUP
Percent Solids for Sample: 93.9 **Duplicate ID** J1756-07DUP **Percent Solids for Spike Sample:** 93.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.066	J	0.075	J	13		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94094 **Level:** LOW **SDG No.:** LB94094
Contract: **Lab Code:** CHEM **Case No.:** LB94094 **SAS No.:** LB94094
Matrix: Solid **Sample ID:** J1756-07MS **Client ID:** OR-03-032018-AMSD
Percent Solids for Sample: 93.9 **Duplicate ID** J1756-07MSD **Percent Solids for Spike Sample:** 93.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.7		1.8		6		

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB94094 **Level:** LOW **SDG No.:** LB94094
Contract: **Lab Code:** CHEM **Case No.:** LB94094 **SAS No.:** LB94094
Matrix: WATER **Sample ID:** J1990-01 **Client ID:** WELL-ADUP
Percent Solids for Sample: 0 **Duplicate ID** J1990-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.003	U	0.0013	U			

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB94094 **Level:** LOW **SDG No.:** LB94094
Contract: **Lab Code:** CHEM **Case No.:** LB94094 **SAS No.:** LB94094
Matrix: WATER **Sample ID:** J1990-01MS **Client ID:** WELL-AMSD
Percent Solids for Sample: 0 **Duplicate ID** J1990-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.033		0.033		0		

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB107577BS							
Cyanide	mg/Kg	4.8	4.5		93.7	85 - 115	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94094

SDG No.: LB94094

Contract:

Lab Code: CHEM

Case No.: LB94094

SAS No.: LB94094

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB107578BS Cyanide	mg/L	0.1	0.098		98	85 - 115	