

Daily Analysis Runlog For Sequence/QC Batch ID # LB94235

Review By		Review On				
SubDirectory		LB94235		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63147,WP63148,WP63149,WP63150,WP63151,WP63152,WP63153				
ICV Standard		W1542				
CCV Standard		WP63154				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP63156,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/29/18 11:24		OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/29/18 11:24		OK
3	10PPBCN	10PPBCN	CAL3	03/29/18 11:24		OK
4	50PPBCN	50PPBCN	CAL4	03/29/18 11:24		OK
5	100PPBCN	100PPBCN	CAL5	03/29/18 11:24		OK
6	250PPBCN	250PPBCN	CAL6	03/29/18 11:24		OK
7	500PPBCN	500PPBCN	CAL7	03/29/18 11:24		OK
8	ICV1	ICV1	ICV	03/29/18 13:04		OK
9	ICB1	ICB1	ICB	03/29/18 13:04		OK
10	CCV1	CCV1	CCV	03/29/18 13:04		OK
11	CCB1	CCB1	CCB	03/29/18 13:04		OK
12	PB107779BL	PB107779BL	MB	03/29/18 13:04		OK
13	PB107779BS	PB107779BS	LCS	03/29/18 13:04		OK
14	LOWPB107779	LOWPB107779	SAM	03/29/18 13:04		OK
15	HIGHPB107779	HIGHPB107779	SAM	03/29/18 13:04		OK
16	J1749-07	BU-02-032818	SAM	03/29/18 13:04		OK
17	J1749-07DUP	BU-02-032818DUP	DUP	03/29/18 13:04		OK
18	J1749-07MS	BU-02-032818MS	MS	03/29/18 13:05		OK
19	J1749-07MSD	BU-02-032818MSD	MSD	03/29/18 13:12		OK
20	J1755-05	OK-02-032818	SAM	03/29/18 13:12		OK
21	J1761-03	TR-04-032818	SAM	03/29/18 13:12		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB94235

Review By			Review On			
SubDirectory		LB94235		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63147,WP63148,WP63149,WP63150,WP63151,WP63152,WP63153				
ICV Standard		W1542				
CCV Standard		WP63154				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP63156,WP59958,WP60878				
22	CCV2	CCV2	CCV	03/29/18 13:12		OK
23	CCB2	CCB2	CCB	03/29/18 13:12		OK
24	J2103-01	LS-SOIL-1	SAM	03/29/18 13:12		OK
25	J2103-05	LS-SOIL-2	SAM	03/29/18 13:12		OK
26	J2104-01	20180220-COMPOS	SAM	03/29/18 13:12		OK
27	J2104-02	20180221-COMPOS	SAM	03/29/18 13:12		OK
28	J2112-02	S-1-COMP	SAM	03/29/18 13:12		OK
29	J2112-04	S-2-COMP	SAM	03/29/18 13:12		OK
30	J2112-06	S-3-COMP	SAM	03/29/18 13:19		OK
31	PB107778BL	PB107778BL	MB	03/29/18 13:19		OK
32	PB107778BS	PB107778BS	LCS	03/29/18 13:19		OK
33	J2103-09	LS	SAM	03/29/18 13:20		OK
34	CCV3	CCV3	CCV	03/29/18 13:20		OK
35	CCB3	CCB3	CCB	03/29/18 13:20		OK
36	J2103-09DUP	LSDUP	DUP	03/29/18 13:20		OK
37	J2103-09MS	LSMS	MS	03/29/18 13:20		OK
38	J2103-09MSD	LSMSD	MSD	03/29/18 13:20		OK
39	CCV4	CCV4	CCV	03/29/18 13:20		OK
40	CCB4	CCB4	CCB	03/29/18 13:20		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB94235	Date Received:	
Client Sample ID:	HIGHPB107779	SDG No.:	LB94235
Lab Sample ID:	HIGHPB107779	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		03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/28/2018 12:00:00 AM
Project:	LB94235	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	BU-02-032818	SDG No.:	LB94235
Lab Sample ID:	J1749-07	Matrix:	Solid
Level (low/med):	low	% Solid:	86.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.056	J	1	0.038		0.28	mg/Kg	03/29/2018	03/29/2018	9012B

Report of Analysis

Client:		Date Collected:	3/28/2018 12:00:00 AM
Project:	LB94235	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	OK-02-032818	SDG No.:	LB94235
Lab Sample ID:	J1755-05	Matrix:	Solid
Level (low/med):	low	% Solid:	92.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.083	J	1	0.035		0.26	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/28/2018 12:00:00 AM
Project:	LB94235	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	TR-04-032818	SDG No.:	LB94235
Lab Sample ID:	J1761-03	Matrix:	Solid
Level (low/med):	low	% Solid:	89.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.17	J	1	0.036		0.27	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/28/2018 12:00:00 AM
Project:	LB94235	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	LS-SOIL-1	SDG No.:	LB94235
Lab Sample ID:	J2103-01	Matrix:	Solid
Level (low/med):	low	% Solid:	85.3

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		0.28	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/28/2018 12:00:00 AM
Project:	LB94235	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	LS-SOIL-2	SDG No.:	LB94235
Lab Sample ID:	J2103-05	Matrix:	Solid
Level (low/med):	low	% Solid:	85.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0001	U	1	0.037		0.28	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/28/2018 12:00:00 AM
Project:	LB94235	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	LS	SDG No.:	LB94235
Lab Sample ID:	J2103-09	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	0.00027	U	1	0.003		0.005	mg/L	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/23/2018 12:00:00 AM
Project:	LB94235	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	20180220-COMPOSITE-A	SDG No.:	LB94235
Lab Sample ID:	J2104-01	Matrix:	Solid
Level (low/med):	low	% Solid:	76.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.016	U	1	0.042		0.32	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/23/2018 12:00:00 AM
Project:	LB94235	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	20180221-COMPOSITE-B	SDG No.:	LB94235
Lab Sample ID:	J2104-02	Matrix:	Solid
Level (low/med):	low	% Solid:	51.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.008	U	1	0.059		0.45	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/28/2018 12:00:00 AM
Project:	LB94235	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	S-1-COMP	SDG No.:	LB94235
Lab Sample ID:	J2112-02	Matrix:	Solid
Level (low/med):	low	% Solid:	87.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.033	U	1	0.035		0.26	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/28/2018 12:00:00 AM
Project:	LB94235	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	S-2-COMP	SDG No.:	LB94235
Lab Sample ID:	J2112-04	Matrix:	Solid
Level (low/med):	low	% Solid:	88.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.052	J	1	0.035		0.27	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/28/2018 12:00:00 AM
Project:	LB94235	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	S-3-COMP	SDG No.:	LB94235
Lab Sample ID:	J2112-06	Matrix:	Solid
Level (low/med):	low	% Solid:	87.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.096	J	1	0.035		0.27	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB94235	Date Received:	
Client Sample ID:	LOWPB107779	SDG No.:	LB94235
Lab Sample ID:	LOWPB107779	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		03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB94235	Date Received:	
Client Sample ID:	LOWPB107779	SDG No.:	LB94235
Lab Sample ID:	LOWPB107779	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: LB94235

SDG No.: LB94235

Contract: _____ Lab Code: CHEM

Case No.: LB94235

SAS No.: LB94235

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	0.095	0.099	96		85 - 115		03/29/2018	13:04	LB94235



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94235

SDG No.: LB94235

Contract: _____ Lab Code: CHEM

Case No.: LB94235

SAS No.: LB94235

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		03/29/2018	13:04	LB94235
CCV2	Cyanide	0.24	0.25	96		90 - 110		03/29/2018	13:12	LB94235
CCV3	Cyanide	0.24	0.25	96		90 - 110		03/29/2018	13:20	LB94235
CCV4	Cyanide	0.24	0.25	96		90 - 110		03/29/2018	13:20	LB94235



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94235

SDG No.: LB94235

Contract:

Lab Code: CHEM

Case No.: LB94235

SAS No.: LB94235

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.0001	+/-0.005	U		0.005		03/29/2018	13:04	LB94235



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94235

SDG No.: LB94235

Contract:

Lab Code: CHEM

Case No.: LB94235

SAS No.: LB94235

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.0001	+/-0.005	U		0.005		03/29/2018	13:04	LB94235
CCB2	Cyanide	0	+/-0.005	U		0.005		03/29/2018	13:12	LB94235
CCB3	Cyanide	0.00011	+/-0.005	U		0.005		03/29/2018	13:20	LB94235
CCB4	Cyanide	0.00012	+/-0.005	U		0.005		03/29/2018	13:20	LB94235



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94235

SDG No.: LB94235

Contract: Lab Code: CHEM

Case No.: LB94235

SAS No.: LB94235

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: LB94235

SDG No.: LB94235

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB107778BL	Cyanide	WATER		Batch Number:		PB107778		Prep Date:	03/29/2018	
		-0.00024	<0.005	U		0.005		03/29/2018	13:19	LB94235
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB107779BL	Cyanide	SOLID		Batch Number:		PB107779		Prep Date:	03/29/2018	
		-0.016	<0.25	U		0.25		03/29/2018	13:04	LB94235



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB94235 level: low sdg no.: LB94235
contract: lab code: CHEM case no.: LB94235 sas no.: LB94235
matrix: Solid sample id: J1749-07 client id: BU-02-032818MS
Percent Solids for Sample: 86.1 Spiked ID: J1749-07MS Percent Solids for Spike Sample: 86.1

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.5		0.056	J	2.3	63	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB94235 level: low sdg no.: LB94235
contract: lab code: CHEM case no.: LB94235 sas no.: LB94235
matrix: Solid sample id: J1749-07 client id: BU-02-032818MSD
Percent Solids for Sample: 86.1 Spiked ID: J1749-07MSD Percent Solids for Spike Sample: 86.1

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.4		0.056	J	2.2	61	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB94235 level: low sdg no.: LB94235
contract: lab code: CHEM case no.: LB94235 sas no.: LB94235
matrix: WATER sample id: J2103-09 client id: LSMS
Percent Solids for Sample: 0 Spiked ID: J2103-09MS 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	0.031		0.003	U	0.04	77.5		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB94235 level: low sdg no.: LB94235
contract: lab code: CHEM case no.: LB94235 sas no.: LB94235
matrix: WATER sample id: J2103-09 client id: LSMSD
Percent Solids for Sample: 0 Spiked ID: J2103-09MSD 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	0.032		0.003	U	0.04	80		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB94235 **Level:** LOW **SDG No.:** LB94235
Contract: **Lab Code:** CHEM **Case No.:** LB94235 **SAS No.:** LB94235
Matrix: Solid **Sample ID:** J1749-07 **Client ID:** BU-02-032818DUP
Percent Solids for Sample: 86.1 **Duplicate ID** J1749-07DUP **Percent Solids for Spike Sample:** 86.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.056	J	0.026	U	200.0	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB94235 Level: LOW SDG No.: LB94235
Contract: _____ Lab Code: CHEM Case No.: LB94235 SAS No.: LB94235
Matrix: Solid Sample ID: J1749-07MS Client ID: BU-02-032818MSD
Percent Solids for Sample: 86.1 Duplicate ID J1749-07MSD Percent Solids for Spike Sample: 86.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.5		1.4		7		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB94235 **Level:** LOW **SDG No.:** LB94235
Contract: **Lab Code:** CHEM **Case No.:** LB94235 **SAS No.:** LB94235
Matrix: WATER **Sample ID:** J2103-09 **Client ID:** LSDUP
Percent Solids for Sample: 0 **Duplicate ID** J2103-09DUP **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	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB94235 **Level:** LOW **SDG No.:** LB94235
Contract: **Lab Code:** CHEM **Case No.:** LB94235 **SAS No.:** LB94235
Matrix: WATER **Sample ID:** J2103-09MS **Client ID:** LSMSD
Percent Solids for Sample: 0 **Duplicate ID** J2103-09MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.031		0.032		3		

