

Daily Analysis Runlog For Sequence/QC Batch ID # LB94230

Review By

Review On

SubDirectory

LB94230

Test :

Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP63147,WP63148,WP63149,WP63150,WP63151,WP63152,WP63153
ICV Standard	WP63155
CCV Standard	WP63154
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
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 11:54		OK
9	ICB1	ICB1	ICB	03/29/18 11:54		OK
10	CCV1	CCV1	CCV	03/29/18 11:54		OK
11	CCB1	CCB1	CCB	03/29/18 11:54		OK
12	PB107770BL	PB107770BL	MB	03/29/18 11:54		OK
13	J2117-02	TPIAS	SAM	03/29/18 11:54		OK
14	J2117-02DUP	TPIASDUP	DUP	03/29/18 11:54		OK
15	J2117-04	TPIAD	SAM	03/29/18 11:54		OK
16	J2121-21	PA-01-COMP	SAM	03/29/18 11:54		OK
17	J2121-22	PA-02-COMP	SAM	03/29/18 11:54		OK
18	J2121-23	PA-03-COMP	SAM	03/29/18 11:54		OK
19	J2121-24	PA-05-COMP	SAM	03/29/18 12:01		OK
20	J2121-25	PA-06-COMP	SAM	03/29/18 12:01		OK
21	J2121-26	PA-07-COMP	SAM	03/29/18 12:01		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB94230

Review By		Review On				
SubDirectory		LB94230		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63147,WP63148,WP63149,WP63150,WP63151,WP63152,WP63153				
ICV Standard		WP63155				
CCV Standard		WP63154				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP63156,WP59958,WP60878				
22	CCV2	CCV2	CCV	03/29/18 12:01		OK
23	CCB2	CCB2	CCB	03/29/18 12:01		OK
24	J2121-27	PA-10-COMP	SAM	03/29/18 12:01		OK
25	J2121-28	PA-04-COMP	SAM	03/29/18 12:02		OK
26	J2121-29	PA-08-COMP	SAM	03/29/18 12:02		OK
27	J2121-30	PA-09-COMP	SAM	03/29/18 12:02		OK
28	J2122-13	PB-12-COMP	SAM	03/29/18 12:02		OK
29	J2122-14	PB-11-COMP	SAM	03/29/18 12:02		OK
30	J2122-15	PB-14-COMP	SAM	03/29/18 12:07		OK
31	J2122-16	PB-13-COMP	SAM	03/29/18 12:07		OK
32	J2122-17	PB-16-COMP	SAM	03/29/18 12:07		OK
33	J2122-18	PB-15-COMP	SAM	03/29/18 12:07		OK
34	CCV3	CCV3	CCV	03/29/18 12:07		OK
35	CCB3	CCB3	CCB	03/29/18 12:07		OK



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Report of Analysis

Client:		Date Collected:	3/28/2018 12:00:00 AM
Project:	LB94230	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	TPIAS	SDG No.:	LB94230
Lab Sample ID:	J2117-02	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0041	U	1	0.025		0.05	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:	LB94230	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	TPIAD	SDG No.:	LB94230
Lab Sample ID:	J2117-04	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0029	U	1	0.025		0.05	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/26/2018 12:00:00 AM
Project:	LB94230	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	PA-01-COMP	SDG No.:	LB94230
Lab Sample ID:	J2121-21	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0031	U	1	0.025		0.05	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/26/2018 12:00:00 AM
Project:	LB94230	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	PA-02-COMP	SDG No.:	LB94230
Lab Sample ID:	J2121-22	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0051	U	1	0.025		0.05	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/26/2018 12:00:00 AM
Project:	LB94230	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	PA-03-COMP	SDG No.:	LB94230
Lab Sample ID:	J2121-23	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0052	U	1	0.025		0.05	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/26/2018 12:00:00 AM
Project:	LB94230	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	PA-05-COMP	SDG No.:	LB94230
Lab Sample ID:	J2121-24	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0039	U	1	0.025		0.05	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/26/2018 12:00:00 AM
Project:	LB94230	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	PA-06-COMP	SDG No.:	LB94230
Lab Sample ID:	J2121-25	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0021	U	1	0.025		0.05	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/26/2018 12:00:00 AM
Project:	LB94230	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	PA-07-COMP	SDG No.:	LB94230
Lab Sample ID:	J2121-26	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0021	U	1	0.025		0.05	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/26/2018 12:00:00 AM
Project:	LB94230	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	PA-10-COMP	SDG No.:	LB94230
Lab Sample ID:	J2121-27	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0045	U	1	0.025		0.05	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/27/2018 12:00:00 AM
Project:	LB94230	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	PA-04-COMP	SDG No.:	LB94230
Lab Sample ID:	J2121-28	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0032	U	1	0.025		0.05	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/27/2018 12:00:00 AM
Project:	LB94230	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	PA-08-COMP	SDG No.:	LB94230
Lab Sample ID:	J2121-29	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0039	U	1	0.025		0.05	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/27/2018 12:00:00 AM
Project:	LB94230	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	PA-09-COMP	SDG No.:	LB94230
Lab Sample ID:	J2121-30	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0052	U	1	0.025		0.05	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/27/2018 12:00:00 AM
Project:	LB94230	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	PB-12-COMP	SDG No.:	LB94230
Lab Sample ID:	J2122-13	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0039	U	1	0.025		0.05	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/27/2018 12:00:00 AM
Project:	LB94230	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	PB-11-COMP	SDG No.:	LB94230
Lab Sample ID:	J2122-14	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0048	U	1	0.025		0.05	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/27/2018 12:00:00 AM
Project:	LB94230	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	PB-14-COMP	SDG No.:	LB94230
Lab Sample ID:	J2122-15	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0044	U	1	0.025		0.05	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/27/2018 12:00:00 AM
Project:	LB94230	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	PB-13-COMP	SDG No.:	LB94230
Lab Sample ID:	J2122-16	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0033	U	1	0.025		0.05	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/27/2018 12:00:00 AM
Project:	LB94230	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	PB-16-COMP	SDG No.:	LB94230
Lab Sample ID:	J2122-17	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0036	U	1	0.025		0.05	mg/Kg	03/29/2018	03/29/2018	9012B

Report of Analysis

Client:		Date Collected:	3/27/2018 12:00:00 AM
Project:	LB94230	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	PB-15-COMP	SDG No.:	LB94230
Lab Sample ID:	J2122-18	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0024	U	1	0.025		0.05	mg/Kg	03/29/2018	03/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/27/2018 12:00:00 AM
Project:	LB94230	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	PB-15-COMP	SDG No.:	LB94230
Lab Sample ID:	J2122-18	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



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94230

SDG No.: LB94230

Contract: _____ Lab Code: CHEM

Case No.: LB94230

SAS No.: LB94230

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	Reactive Cyanide	0.095	0.099	96		85 - 115		03/29/2018	11:54	LB94230



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94230

SDG No.: LB94230

Contract: _____ Lab Code: CHEM

Case No.: LB94230

SAS No.: LB94230

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	Reactive Cyanide	0.24	0.25	96		90 - 110		03/29/2018	11:54	LB94230
CCV2	Reactive Cyanide	0.24	0.25	96		90 - 110		03/29/2018	12:01	LB94230
CCV3	Reactive Cyanide	0.24	0.25	96		90 - 110		03/29/2018	12:07	LB94230



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94230 **SDG No.:** LB94230
Contract: **Lab Code:** CHEM **Case No.:** LB94230 **SAS No.:** LB94230

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.0001	+/-0.005	U		0.005		03/29/2018	11:54	LB94230

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.0002	+/-0.005	U		0.005		03/29/2018	11:54	LB94230
CCB2	Reactive Cyanide	-0.0001	+/-0.005	U		0.005		03/29/2018	12:01	LB94230
CCB3	Reactive Cyanide	-0.00028	+/-0.005	U		0.005		03/29/2018	12:07	LB94230



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94230

SDG No.: LB94230

Contract: Lab Code: CHEM

Case No.: LB94230

SAS No.: LB94230

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: LB94230

SDG No.: LB94230

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
PB107770BL	Reactive Cyanide	SOLID -0.0029	<0.05	Batch Number: U		PB107770 0.05		Prep Date: 03/29/2018	03/29/2018 11:54	LB94230

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94230 **Level:** LOW **SDG No.:** LB94230
Contract: **Lab Code:** CHEM **Case No.:** LB94230 **SAS No.:** LB94230
Matrix: Solid **Sample ID:** J2117-02 **Client ID:** TPIASDUP
Percent Solids for Sample: 100 **Duplicate ID** J2117-02DUP **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	-0.0047	U			