

Daily Analysis Runlog For Sequence/QC Batch ID # LB94186

Review By		Review On				
SubDirectory		LB94186		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63070,WP63071,WP63072,WP63073,WP63074,WP63075,WP63076				
ICV Standard		WP63078				
CCV Standard		WP63077				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP63079,WP59958,WP60878				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/27/18 12:54		OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/27/18 12:54		OK
3	10PPBCN	10PPBCN	CAL3	03/27/18 12:54		OK
4	50PPBCN	50PPBCN	CAL4	03/27/18 12:54		OK
5	100PPBCN	100PPBCN	CAL5	03/27/18 12:54		OK
6	250PPBCN	250PPBCN	CAL6	03/27/18 12:54		OK
7	500PPBCN	500PPBCN	CAL7	03/27/18 12:54		OK
8	ICV1	ICV1	ICV	03/27/18 15:48		OK
9	ICB1	ICB1	ICB	03/27/18 15:48		OK
10	CCV1	CCV1	CCV	03/27/18 15:48		OK
11	CCB1	CCB1	CCB	03/27/18 15:48		OK
12	PB107688BL	PB107688BL	MB	03/27/18 15:48		OK
13	J1749-06	BU-03-032618	SAM	03/27/18 15:48		OK
14	J1749-06DUP	BU-03-032618DUP	DUP	03/27/18 15:48		OK
15	J2063-03	RO-CV-2533	SAM	03/27/18 15:48		OK
16	J2064-03	RO-CV-2532	SAM	03/27/18 15:48		OK
17	J2065-03	RO-CV-2536	SAM	03/27/18 15:48		OK
18	J2066-03	RO-CV-2036	SAM	03/27/18 15:48		OK
19	J2068-03	RO-CV-2043	SAM	03/27/18 15:55		OK
20	J2071-03	TP-1-MH-D-S	SAM	03/27/18 15:55		OK
21	J2071-06	TP-1-MH-D-D	SAM	03/27/18 15:55		OK

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SubDirectory		LB94186		Test : Reactive Cyanide		
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ICAL Standard		WP63070,WP63071,WP63072,WP63073,WP63074,WP63075,WP63076				
ICV Standard		WP63078				
CCV Standard		WP63077				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP63079,WP59958,WP60878				
22	CCV2	CCV2	CCV	03/27/18 15:55		OK
23	CCB2	CCB2	CCB	03/27/18 15:55		OK
24	PB107689BL	PB107689BL	MB	03/27/18 15:55		OK
25	J2067-02	RO-CV-RB47185RT	SAM	03/27/18 15:55		OK
26	J2067-02DUP	RO-CV-RB47185RTD	DUP	03/27/18 15:55		OK
27	J2071-11	TP-7-DB	SAM	03/27/18 15:55		OK
28	J2071-09	TP-7-DB	SAM	03/27/18 16:17		OK
29	CCV3	CCV3	CCV	03/27/18 16:17		OK
30	CCB3	CCB3	CCB	03/27/18 16:17		OK



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Report of Analysis

Client:		Date Collected:	3/26/2018 12:00:00 AM
Project:	LB94186	Date Received:	3/26/2018 12:00:00 AM
Client Sample ID:	BU-03-032618	SDG No.:	LB94186
Lab Sample ID:	J1749-06	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	03/27/2018	03/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/26/2018 12:00:00 AM
Project:	LB94186	Date Received:	3/26/2018 12:00:00 AM
Client Sample ID:	RO-CV-2533	SDG No.:	LB94186
Lab Sample ID:	J2063-03	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	0.0023	U	1	0.025		0.05	mg/Kg	03/27/2018	03/27/2018	9012B

Report of Analysis

Client:		Date Collected:	3/26/2018 12:00:00 AM
Project:	LB94186	Date Received:	3/26/2018 12:00:00 AM
Client Sample ID:	RO-CV-2532	SDG No.:	LB94186
Lab Sample ID:	J2064-03	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	03/27/2018	03/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/26/2018 12:00:00 AM
Project:	LB94186	Date Received:	3/26/2018 12:00:00 AM
Client Sample ID:	RO-CV-2536	SDG No.:	LB94186
Lab Sample ID:	J2065-03	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	0.0023	U	1	0.025		0.05	mg/Kg	03/27/2018	03/27/2018	9012B

Report of Analysis

Client:		Date Collected:	3/26/2018 12:00:00 AM
Project:	LB94186	Date Received:	3/26/2018 12:00:00 AM
Client Sample ID:	RO-CV-2036	SDG No.:	LB94186
Lab Sample ID:	J2066-03	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	0.0027	U	1	0.025		0.05	mg/Kg	03/27/2018	03/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/26/2018 12:00:00 AM
Project:	LB94186	Date Received:	3/26/2018 12:00:00 AM
Client Sample ID:	RO-CV-RB47185RT	SDG No.:	LB94186
Lab Sample ID:	J2067-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00043	U	1	0.0025		0.005	mg/L	03/27/2018	03/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/26/2018 12:00:00 AM
Project:	LB94186	Date Received:	3/26/2018 12:00:00 AM
Client Sample ID:	RO-CV-2043	SDG No.:	LB94186
Lab Sample ID:	J2068-03	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	0.004	U	1	0.025		0.05	mg/Kg	03/27/2018	03/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/26/2018 12:00:00 AM
Project:	LB94186	Date Received:	3/26/2018 12:00:00 AM
Client Sample ID:	TP-1-MH-D-S	SDG No.:	LB94186
Lab Sample ID:	J2071-03	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	03/27/2018	03/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/26/2018 12:00:00 AM
Project:	LB94186	Date Received:	3/26/2018 12:00:00 AM
Client Sample ID:	TP-1-MH-D-D	SDG No.:	LB94186
Lab Sample ID:	J2071-06	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	03/27/2018	03/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/26/2018 12:00:00 AM
Project:	LB94186	Date Received:	3/26/2018 12:00:00 AM
Client Sample ID:	TP-7-DB	SDG No.:	LB94186
Lab Sample ID:	J2071-09	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	03/27/2018	03/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/26/2018 12:00:00 AM
Project:	LB94186	Date Received:	3/26/2018 12:00:00 AM
Client Sample ID:	TP-7-DB	SDG No.:	LB94186
Lab Sample ID:	J2071-11	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00076	U	1	0.0025		0.005	mg/L	03/27/2018	03/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/26/2018 12:00:00 AM
Project:	LB94186	Date Received:	3/26/2018 12:00:00 AM
Client Sample ID:	TP-7-DB	SDG No.:	LB94186
Lab Sample ID:	J2071-11	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

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94186

SDG No.: LB94186

Contract: _____ Lab Code: CHEM

Case No.: LB94186

SAS No.: LB94186

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	0.096	0.099	97		85 - 115		03/27/2018	15:48	LB94186



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94186

SDG No.: LB94186

Contract:

Lab Code: CHEM

Case No.: LB94186

SAS No.: LB94186

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.0006	+/-0.005	U		0.005		03/27/2018	15:48	LB94186

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00067	+/-0.005	U		0.005		03/27/2018	15:48	LB94186
CCB2	Reactive Cyanide	0.0005	+/-0.005	U		0.005		03/27/2018	15:55	LB94186
CCB3	Reactive Cyanide	0.00053	+/-0.005	U		0.005		03/27/2018	16:17	LB94186



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94186

SDG No.: LB94186

Contract:

Lab Code: CHEM

Case No.: LB94186

SAS No.: LB94186

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: LB94186

SDG No.: LB94186

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
PB107688BL	Reactive Cyanide	SOLID		Batch Number:		PB107688		Prep Date:	03/27/2018	
		0.0036	<0.05	U		0.05		03/27/2018	15:48	LB94186
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB107689BL	Reactive Cyanide	WATER		Batch Number:		PB107689		Prep Date:	03/27/2018	
		0.00041	<0.005	U		0.005		03/27/2018	15:55	LB94186

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DUPLICATE SAMPLE SUMMARY

Client: LB94186 **Level:** LOW **SDG No.:** LB94186
Contract: **Lab Code:** CHEM **Case No.:** LB94186 **SAS No.:** LB94186
Matrix: Solid **Sample ID:** J1749-06 **Client ID:** BU-03-032618DUP
Percent Solids for Sample: 100 **Duplicate ID** J1749-06DUP **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	0.005	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB94186 **Level:** LOW **SDG No.:** LB94186
Contract: **Lab Code:** CHEM **Case No.:** LB94186 **SAS No.:** LB94186
Matrix: WATER **Sample ID:** J2067-02 **Client ID:** RO-CV-RB47185RTDUP
Percent Solids for Sample: 0 **Duplicate ID** J2067-02DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/L	20	0.0025	U	0.00042	U			