

Daily Analysis Runlog For Sequence/QC Batch ID # LB93903

Review By		Review On				
SubDirectory		LB93903		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP62688,WP62689,WP62690,WP62691,WP62692,WP62693,WP62694				
ICV Standard		WP62696				
CCV Standard		WP62695				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP62697,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/14/18 10:59		OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/14/18 10:59		OK
3	10PPBCN	10PPBCN	CAL3	03/14/18 10:59		OK
4	50PPBCN	50PPBCN	CAL4	03/14/18 10:59		OK
5	100PPBCN	100PPBCN	CAL5	03/14/18 10:59		OK
6	250PPBCN	250PPBCN	CAL6	03/14/18 10:59		OK
7	500PPBCN	500PPBCN	CAL7	03/14/18 10:59		OK
8	ICV1	ICV1	ICV	03/14/18 13:02		OK
9	ICB1	ICB1	ICB	03/14/18 13:02		OK
10	CCV1	CCV1	CCV	03/14/18 13:02		OK
11	CCB1	CCB1	CCB	03/14/18 13:02		OK
12	PB107347BL	PB107347BL	MB	03/14/18 13:02		OK
13	J1749-04	BU-02-031318	SAM	03/14/18 13:02		OK
14	J1749-04DUP	BU-02-031318DUP	DUP	03/14/18 13:02		OK
15	J1754-02	CL-01-031318-A	SAM	03/14/18 13:02		OK
16	J1754-04	CL-01-031318-B	SAM	03/14/18 13:02		OK
17	J1754-06	CL-01-031318-C	SAM	03/14/18 13:02		OK
18	J1754-08	CL-01-031318-D	SAM	03/14/18 13:02		OK
19	J1754-10	CL-01-031318-E	SAM	03/14/18 13:09		OK
20	J1908-04	TP-A	SAM	03/14/18 13:09		OK
21	J1908-08	TP-B	SAM	03/14/18 13:09		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB93903

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SubDirectory		LB93903		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP62688,WP62689,WP62690,WP62691,WP62692,WP62693,WP62694				
ICV Standard		WP62696				
CCV Standard		WP62695				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP62697,WP59958,WP60878				
22	CCV2	CCV2	CCV	03/14/18 13:09		OK
23	CCB2	CCB2	CCB	03/14/18 13:09		OK
24	J1909-02	1-3-RO-COMP	SAM	03/14/18 13:09		OK
25	J1911-03	TP-5A-COMP	SAM	03/14/18 13:09		OK
26	J1911-06	TP-5B-COMP	SAM	03/14/18 13:09		OK
27	J1911-10	TP-13-COMP	SAM	03/14/18 13:09		OK
28	PB107348BL	PB107348BL	MB	03/14/18 13:10		OK
29	J1910-02	291	SAM	03/14/18 13:10		OK
30	J1910-02DUP	291DUP	DUP	03/14/18 13:14		OK
31	J1911-12	TP-5	SAM	03/14/18 13:14		OK
32	CCV3	CCV3	CCV	03/14/18 13:14		OK
33	CCB3	CCB3	CCB	03/14/18 13:14		OK



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93903	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	BU-02-031318	SDG No.:	LB93903
Lab Sample ID:	J1749-04	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	0.0013	U	1	0.025		0.05	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93903	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	CL-01-031318-A	SDG No.:	LB93903
Lab Sample ID:	J1754-02	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	0.00015	U	1	0.025		0.05	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93903	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	CL-01-031318-B	SDG No.:	LB93903
Lab Sample ID:	J1754-04	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	0.00041	U	1	0.025		0.05	mg/Kg	03/14/2018	03/14/2018	9012B

Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93903	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	CL-01-031318-C	SDG No.:	LB93903
Lab Sample ID:	J1754-06	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	0.0012	U	1	0.025		0.05	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93903	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	CL-01-031318-D	SDG No.:	LB93903
Lab Sample ID:	J1754-08	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	0.0011	U	1	0.025		0.05	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93903	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	CL-01-031318-E	SDG No.:	LB93903
Lab Sample ID:	J1754-10	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	0.0049	U	1	0.025		0.05	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93903	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	TP-A	SDG No.:	LB93903
Lab Sample ID:	J1908-04	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	0.0038	U	1	0.025		0.05	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93903	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	TP-B	SDG No.:	LB93903
Lab Sample ID:	J1908-08	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	0.0049	U	1	0.025		0.05	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93903	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	1-3-RO-COMP	SDG No.:	LB93903
Lab Sample ID:	J1909-02	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	0.0039	U	1	0.025		0.05	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93903	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	291	SDG No.:	LB93903
Lab Sample ID:	J1910-02	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	0.00026	U	1	0.0025		0.005	mg/L	03/14/2018	03/14/2018	9012B

Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93903	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	TP-5A-COMP	SDG No.:	LB93903
Lab Sample ID:	J1911-03	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	0.0038	U	1	0.025		0.05	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93903	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	TP-5B-COMP	SDG No.:	LB93903
Lab Sample ID:	J1911-06	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	0.0027	U	1	0.025		0.05	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93903	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	TP-13-COMP	SDG No.:	LB93903
Lab Sample ID:	J1911-10	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	0.003	U	1	0.025		0.05	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93903	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	TP-5	SDG No.:	LB93903
Lab Sample ID:	J1911-12	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	0.00044	U	1	0.0025		0.005	mg/L	03/14/2018	03/14/2018	9012B



Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93903	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	TP-5	SDG No.:	LB93903
Lab Sample ID:	J1911-12	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: LB93903

SDG No.: LB93903

Contract: _____ Lab Code: CHEM

Case No.: LB93903

SAS No.: LB93903

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		03/14/2018	13:02	lb93903



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93903

SDG No.: LB93903

Contract: _____ Lab Code: CHEM

Case No.: LB93903

SAS No.: LB93903

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		03/14/2018	13:02	lb93903
CCV2	Reactive Cyanide	0.24	0.25	96		90 - 110		03/14/2018	13:09	lb93903
CCV3	Reactive Cyanide	0.26	0.25	104		90 - 110		03/14/2018	13:14	lb93903



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93903

SDG No.: LB93903

Contract:

Lab Code: CHEM

Case No.: LB93903

SAS No.: LB93903

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00058	+/-0.005	U		0.005		03/14/2018	13:02	1b93903



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93903

SDG No.: LB93903

Contract:

Lab Code: CHEM

Case No.: LB93903

SAS No.: LB93903

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00034	+/-0.005	U		0.005		03/14/2018	13:02	1b93903
CCB2	Reactive Cyanide	0.00052	+/-0.005	U		0.005		03/14/2018	13:09	1b93903
CCB3	Reactive Cyanide	0.00034	+/-0.005	U		0.005		03/14/2018	13:14	1b93903



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93903

SDG No.: LB93903

Contract: Lab Code: CHEM

Case No.: LB93903

SAS No.: LB93903

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: LB93903

SDG No.: LB93903

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
PB107347BL	Reactive Cyanide	SOLID		Batch Number:		PB107347		Prep Date:	03/14/2018	
		0.002	<0.05	U		0.05		03/14/2018	13:02	lb93903
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB107348BL	Reactive Cyanide	WATER		Batch Number:		PB107348		Prep Date:	03/14/2018	
		0.00035	<0.005	U		0.005		03/14/2018	13:10	lb93903

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DUPLICATE SAMPLE SUMMARY

Client: LB93903 **Level:** LOW **SDG No.:** LB93903
Contract: **Lab Code:** CHEM **Case No.:** LB93903 **SAS No.:** LB93903
Matrix: Solid **Sample ID:** J1749-04 **Client ID:** BU-02-031318DUP
Percent Solids for Sample: 100 **Duplicate ID** J1749-04DUP **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	0.0023	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB93903 **Level:** LOW **SDG No.:** LB93903
Contract: **Lab Code:** CHEM **Case No.:** LB93903 **SAS No.:** LB93903
Matrix: WATER **Sample ID:** J1910-02 **Client ID:** 291DUP
Percent Solids for Sample: 0 **Duplicate ID** J1910-02DUP **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	0.00024	U			