

Daily Analysis Runlog For Sequence/QC Batch ID # LB93763

Review By

Review On

SubDirectory

LB93763

Test :

Reactive Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP62544,WP62545,WP62546,WP62547,WP62548,WP62549,WP62550				
ICV Standard		wp62552				
CCV Standard		WP62551				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP62553,WP59958,WP60878				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/08/18 11:24		OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/08/18 11:24		OK
3	10PPBCN	10PPBCN	CAL3	03/08/18 11:24		OK
4	50PPBCN	50PPBCN	CAL4	03/08/18 11:24		OK
5	100PPBCN	100PPBCN	CAL5	03/08/18 11:24		OK
6	250PPBCN	250PPBCN	CAL6	03/08/18 11:24		OK
7	500PPBCN	500PPBCN	CAL7	03/08/18 11:24		OK
8	ICV1	ICV1	ICV	03/08/18 12:38		OK
9	ICB1	ICB1	ICB	03/08/18 12:38		OK
10	CCV1	CCV1	CCV	03/08/18 12:38		OK
11	CCB1	CCB1	CCB	03/08/18 12:38		OK
12	PB107152BL	PB107152BL	MB	03/08/18 12:38		OK
13	J1748-02	AU-06-030618-A	SAM	03/08/18 12:38		OK
14	J1748-02DUP	AU-06-030618-ADUP	DUP	03/08/18 12:38		OK
15	J1748-04	AU-06-030618-B	SAM	03/08/18 12:38		OK
16	J1748-06	AU-06-030618-C	SAM	03/08/18 12:38		OK
17	J1749-02	BU-01-030618	SAM	03/08/18 12:38		OK
18	J1760-02	SU-04-030618	SAM	03/08/18 12:38		OK
19	J1819-04	TP-9	SAM	03/08/18 12:45		OK
20	J1819-05	TP-10	SAM	03/08/18 12:45		OK
21	J1819-06	TP-11	SAM	03/08/18 12:45		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB93763

Review By		Review On				
SubDirectory		LB93763		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP62544,WP62545,WP62546,WP62547,WP62548,WP62549,WP62550				
ICV Standard		wp62552				
CCV Standard		WP62551				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP62553,WP59958,WP60878				
22	CCV2	CCV2	CCV	03/08/18 12:45		OK
23	CCB2	CCB2	CCB	03/08/18 12:45		OK
24	J1823-02	MHB-WCA	SAM	03/08/18 12:45		OK
25	J1823-04	MHB-WCB	SAM	03/08/18 12:45		OK
26	J1826-03	TP-2-COMP	SAM	03/08/18 12:45		OK
27	J1826-05	TP-3-A-COMP	SAM	03/08/18 12:45		OK
28	J1826-07	TP-3-B-COMP	SAM	03/08/18 12:45		OK
29	J1828-06	STONE-SUBSTATIO	SAM	03/08/18 12:52		OK
30	J1828-10	Concrete-Structure	SAM	03/08/18 12:52		OK
31	J1829-03	WC-03-01-14	SAM	03/08/18 12:52		OK
32	PB107153BL	PB107153BL	MB	03/08/18 12:52		OK
33	CCV3	CCV3	CCV	03/08/18 12:52		OK
34	CCB3	CCB3	CCB	03/08/18 12:53		OK
35	J1819-08	TP-10	SAM	03/08/18 12:53		OK
36	J1819-08DUP	TP-10DUP	DUP	03/08/18 12:53		OK
37	J1820-02	TP-1	SAM	03/08/18 13:09		OK
38	CCV4	CCV4	CCV	03/08/18 13:09		OK
39	CCB4	CCB4	CCB	03/08/18 13:09		OK



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Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93763	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	AU-06-030618-A	SDG No.:	LB93763
Lab Sample ID:	J1748-02	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	0.0058	U	1	0.025		0.05	mg/Kg	03/08/2018	03/08/2018	9012B

Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93763	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	AU-06-030618-B	SDG No.:	LB93763
Lab Sample ID:	J1748-04	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	0.0041	U	1	0.025		0.05	mg/Kg	03/08/2018	03/08/2018	9012B

Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93763	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	AU-06-030618-C	SDG No.:	LB93763
Lab Sample ID:	J1748-06	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	0.0054	U	1	0.025		0.05	mg/Kg	03/08/2018	03/08/2018	9012B

Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93763	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	BU-01-030618	SDG No.:	LB93763
Lab Sample ID:	J1749-02	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	0.0056	U	1	0.025		0.05	mg/Kg	03/08/2018	03/08/2018	9012B

Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93763	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	SU-04-030618	SDG No.:	LB93763
Lab Sample ID:	J1760-02	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	0.0056	U	1	0.025		0.05	mg/Kg	03/08/2018	03/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/5/2018 12:00:00 AM
Project:	LB93763	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	TP-9	SDG No.:	LB93763
Lab Sample ID:	J1819-04	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	0.005	U	1	0.025		0.05	mg/Kg	03/08/2018	03/08/2018	9012B

Report of Analysis

Client:		Date Collected:	3/5/2018 12:00:00 AM
Project:	LB93763	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	TP-10	SDG No.:	LB93763
Lab Sample ID:	J1819-05	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	0.0046	U	1	0.025		0.05	mg/Kg	03/08/2018	03/08/2018	9012B

Report of Analysis

Client:		Date Collected:	3/5/2018 12:00:00 AM
Project:	LB93763	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	TP-11	SDG No.:	LB93763
Lab Sample ID:	J1819-06	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	0.0082	U	1	0.025		0.05	mg/Kg	03/08/2018	03/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/5/2018 12:00:00 AM
Project:	LB93763	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	TP-10	SDG No.:	LB93763
Lab Sample ID:	J1819-08	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	0.00058	U	1	0.0025		0.005	mg/L	03/08/2018	03/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93763	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	TP-1	SDG No.:	LB93763
Lab Sample ID:	J1820-02	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	0.0044	U	1	0.025		0.05	mg/Kg	03/08/2018	03/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93763	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	MHB-WCA	SDG No.:	LB93763
Lab Sample ID:	J1823-02	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	0.0045	U	1	0.025		0.05	mg/Kg	03/08/2018	03/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93763	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	MHB-WCB	SDG No.:	LB93763
Lab Sample ID:	J1823-04	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	0.0045	U	1	0.025		0.05	mg/Kg	03/08/2018	03/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93763	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	TP-2-COMP	SDG No.:	LB93763
Lab Sample ID:	J1826-03	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	0.0049	U	1	0.025		0.05	mg/Kg	03/08/2018	03/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93763	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	TP-3-A-COMP	SDG No.:	LB93763
Lab Sample ID:	J1826-05	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	03/08/2018	03/08/2018	9012B

Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93763	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	TP-3-B-COMP	SDG No.:	LB93763
Lab Sample ID:	J1826-07	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	0.0053	U	1	0.025		0.05	mg/Kg	03/08/2018	03/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93763	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	STONE-SUBSTATION	SDG No.:	LB93763
Lab Sample ID:	J1828-06	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	0.0026	U	1	0.025		0.05	mg/Kg	03/08/2018	03/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93763	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	Concrete-Structure	SDG No.:	LB93763
Lab Sample ID:	J1828-10	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	0.0044	U	1	0.025		0.05	mg/Kg	03/08/2018	03/08/2018	9012B

Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93763	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	WC-03-01-14	SDG No.:	LB93763
Lab Sample ID:	J1829-03	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	0.005	U	1	0.025		0.05	mg/Kg	03/08/2018	03/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93763	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	WC-03-01-14	SDG No.:	LB93763
Lab Sample ID:	J1829-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB93763

SDG No.: LB93763

Contract: _____ Lab Code: CHEM

Case No.: LB93763

SAS No.: LB93763

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	0.098	0.099	99		85 - 115		03/08/2018	12:38	LB93763



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93763

SDG No.: LB93763

Contract: _____ Lab Code: CHEM

Case No.: LB93763

SAS No.: LB93763

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		03/08/2018	12:38	LB93763
CCV2	Reactive Cyanide	0.24	0.25	96		90 - 110		03/08/2018	12:45	LB93763
CCV3	Reactive Cyanide	0.25	0.25	100		90 - 110		03/08/2018	12:52	LB93763
CCV4	Reactive Cyanide	0.26	0.25	104		90 - 110		03/08/2018	13:09	LB93763



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	LB93763	SDG No.:	LB93763				
Contract:		Lab Code:	CHEM	Case No.:	LB93763	SAS No.:	LB93763

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00062	+/-0.005	U		0.005		03/08/2018	12:38	LB93763



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93763

SDG No.: LB93763

Contract:

Lab Code: CHEM

Case No.: LB93763

SAS No.: LB93763

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00064	+/-0.005	U		0.005		03/08/2018	12:38	LB93763
CCB2	Reactive Cyanide	0.0006	+/-0.005	U		0.005		03/08/2018	12:45	LB93763
CCB3	Reactive Cyanide	0.00057	+/-0.005	U		0.005		03/08/2018	12:53	LB93763
CCB4	Reactive Cyanide	0.00044	+/-0.005	U		0.005		03/08/2018	13:09	LB93763



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93763

SDG No.: LB93763

Contract: Lab Code: CHEM

Case No.: LB93763

SAS No.: LB93763

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: LB93763

SDG No.: LB93763

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
PB107152BL	Reactive Cyanide	SOLID		Batch Number:		PB107152		Prep Date:	03/08/2018	
		0.0053	<0.05	U		0.05		03/08/2018	12:38	LB93763
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB107153BL	Reactive Cyanide	WATER		Batch Number:		PB107153		Prep Date:	03/08/2018	
		0.00074	<0.005	U		0.005		03/08/2018	12:52	LB93763

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB93763 Level: LOW SDG No.: LB93763
 Contract: _____ Lab Code: CHEM Case No.: LB93763 SAS No.: LB93763
 Matrix: Solid Sample ID: J1748-02 Client ID: AU-06-030618-ADUP
 Percent Solids for Sample: 100 Duplicate ID J1748-02DUP 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	0.0064	U			



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DUPLICATE SAMPLE SUMMARY

Client: LB93763 **Level:** LOW **SDG No.:** LB93763
Contract: **Lab Code:** CHEM **Case No.:** LB93763 **SAS No.:** LB93763
Matrix: WATER **Sample ID:** J1819-08 **Client ID:** TP-10DUP
Percent Solids for Sample: 0 **Duplicate ID** J1819-08DUP **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	0.00068	U			