

Daily Analysis Runlog For Sequence/QC Batch ID # LB93519

Review By		Review On				
SubDirectory		LB93519		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP62283,WP62284,WP62285,WP62286,WP62287,WP62288,WP62289				
ICV Standard		WP62291				
CCV Standard		WP62290				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP62292,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	02/26/18 11:49		OK
2	5.0PPBCN	5.0PPBCN	CAL2	02/26/18 11:49		OK
3	10PPBCN	10PPBCN	CAL3	02/26/18 11:49		OK
4	50PPBCN	50PPBCN	CAL4	02/26/18 11:49		OK
5	100PPBCN	100PPBCN	CAL5	02/26/18 11:49		OK
6	250PPBCN	250PPBCN	CAL6	02/26/18 11:49		OK
7	500PPBCN	500PPBCN	CAL7	02/26/18 11:49		OK
8	ICV1	ICV1	ICV	02/26/18 13:56		OK
9	ICB1	ICB1	ICB	02/26/18 13:56		OK
10	CCV1	CCV1	CCV	02/26/18 13:56		OK
11	CCB1	CCB1	CCB	02/26/18 13:56		OK
12	PB106844BL	PB106844BL	MB	02/26/18 13:56		OK
13	J1691-04	B1	SAM	02/26/18 13:56		OK
14	J1691-04DUP	B1DUP	DUP	02/26/18 13:56		OK
15	J1691-08	B2	SAM	02/26/18 13:56		OK
16	J1691-12	B3	SAM	02/26/18 13:56		OK
17	J1691-16	B4	SAM	02/26/18 13:56		OK
18	J1691-20	B5	SAM	02/26/18 13:56		OK
19	J1691-24	B6	SAM	02/26/18 14:03		OK
20	J1691-28	B7	SAM	02/26/18 14:03		OK
21	J1691-32	B8	SAM	02/26/18 14:03		OK

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

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CCV Standard		WP62290				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP62292,WP59958,WP60878				
22	CCV2	CCV2	CCV	02/26/18 14:03		OK
23	CCB2	CCB2	CCB	02/26/18 14:03		OK
24	J1691-36	B9	SAM	02/26/18 14:03		OK
25	J1691-40	B10	SAM	02/26/18 14:03		OK
26	J1691-44	B11	SAM	02/26/18 14:03		OK
27	J1691-48	B12	SAM	02/26/18 14:03		OK
28	J1691-52	B13	SAM	02/26/18 14:03		OK
29	J1691-56	B14	SAM	02/26/18 14:03		OK
30	J1691-60	B15	SAM	02/26/18 14:07		OK
31	J1691-64	B16	SAM	02/26/18 14:07		OK
32	CCV3	CCV3	CCV	02/26/18 14:07		OK
33	CCB3	CCB3	CCB	02/26/18 14:07		OK



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93519	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	B1	SDG No.:	LB93519
Lab Sample ID:	J1691-04	Matrix:	Solid
Level (low/med):	low	% Solid:	87

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00045	U	1	0.025		0.05	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93519	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	B2	SDG No.:	LB93519
Lab Sample ID:	J1691-08	Matrix:	Solid
Level (low/med):	low	% Solid:	80.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0001	U	1	0.025		0.05	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93519	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	B3	SDG No.:	LB93519
Lab Sample ID:	J1691-12	Matrix:	Solid
Level (low/med):	low	% Solid:	76.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00064	U	1	0.025		0.05	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93519	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	B4	SDG No.:	LB93519
Lab Sample ID:	J1691-16	Matrix:	Solid
Level (low/med):	low	% Solid:	88.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0014	U	1	0.025		0.05	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93519	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	B5	SDG No.:	LB93519
Lab Sample ID:	J1691-20	Matrix:	Solid
Level (low/med):	low	% Solid:	86.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00093	U	1	0.025		0.05	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93519	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	B6	SDG No.:	LB93519
Lab Sample ID:	J1691-24	Matrix:	Solid
Level (low/med):	low	% Solid:	83.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0014	U	1	0.025		0.05	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93519	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	B7	SDG No.:	LB93519
Lab Sample ID:	J1691-28	Matrix:	Solid
Level (low/med):	low	% Solid:	82.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00094	U	1	0.025		0.05	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93519	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	B8	SDG No.:	LB93519
Lab Sample ID:	J1691-32	Matrix:	Solid
Level (low/med):	low	% Solid:	81.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.002	U	1	0.025		0.05	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93519	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	B9	SDG No.:	LB93519
Lab Sample ID:	J1691-36	Matrix:	Solid
Level (low/med):	low	% Solid:	93.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00013	U	1	0.025		0.05	mg/Kg	02/26/2018	02/26/2018	9012B

Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93519	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	B10	SDG No.:	LB93519
Lab Sample ID:	J1691-40	Matrix:	Solid
Level (low/med):	low	% Solid:	81.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0006	U	1	0.025		0.05	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93519	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	B11	SDG No.:	LB93519
Lab Sample ID:	J1691-44	Matrix:	Solid
Level (low/med):	low	% Solid:	80.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00031	U	1	0.025		0.05	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93519	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	B12	SDG No.:	LB93519
Lab Sample ID:	J1691-48	Matrix:	Solid
Level (low/med):	low	% Solid:	86.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0015	U	1	0.025		0.05	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93519	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	B13	SDG No.:	LB93519
Lab Sample ID:	J1691-52	Matrix:	Solid
Level (low/med):	low	% Solid:	82.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00086	U	1	0.025		0.05	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93519	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	B14	SDG No.:	LB93519
Lab Sample ID:	J1691-56	Matrix:	Solid
Level (low/med):	low	% Solid:	90.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00087	U	1	0.025		0.05	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93519	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	B15	SDG No.:	LB93519
Lab Sample ID:	J1691-60	Matrix:	Solid
Level (low/med):	low	% Solid:	86.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.001	U	1	0.025		0.05	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93519	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	B16	SDG No.:	LB93519
Lab Sample ID:	J1691-64	Matrix:	Solid
Level (low/med):	low	% Solid:	86.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00042	U	1	0.025		0.05	mg/Kg	02/26/2018	02/26/2018	9012B



Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93519	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	B16	SDG No.:	LB93519
Lab Sample ID:	J1691-64	Matrix:	Solid
Level (low/med):	low	% Solid:	86.2

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: LB93519

SDG No.: LB93519

Contract: _____ Lab Code: CHEM

Case No.: LB93519

SAS No.: LB93519

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		02/26/2018	13:56	LB93519
CCV2	Reactive Cyanide	0.25	0.25	100		90 - 110		02/26/2018	14:03	LB93519
CCV3	Reactive Cyanide	0.26	0.25	104		90 - 110		02/26/2018	14:07	LB93519



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93519 **SDG No.:** LB93519
Contract: **Lab Code:** CHEM **Case No.:** LB93519 **SAS No.:** LB93519

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00038	+/-0.005	U		0.005		02/26/2018	13:56	LB93519

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00061	+/-0.005	U		0.005		02/26/2018	13:56	LB93519
CCB2	Reactive Cyanide	0.00033	+/-0.005	U		0.005		02/26/2018	14:03	LB93519
CCB3	Reactive Cyanide	0.00017	+/-0.005	U		0.005		02/26/2018	14:07	LB93519



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93519

SDG No.: LB93519

Contract: Lab Code: CHEM

Case No.: LB93519

SAS No.: LB93519

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: LB93519

SDG No.: LB93519

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
PB106844BL	Reactive Cyanide	SOLID 0.00036	<0.05	Batch Number: U		PB106844 0.05		Prep Date: 02/26/2018	02/26/2018 13:56	LB93519

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB93519 **Level:** LOW **SDG No.:** LB93519
Contract: **Lab Code:** CHEM **Case No.:** LB93519 **SAS No.:** LB93519
Matrix: Solid **Sample ID:** J1691-04 **Client ID:** B1DUP
Percent Solids for Sample: 87 **Duplicate ID** J1691-04DUP **Percent Solids for Spike Sample:** 87

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	-0.00013	U			