

Daily Analysis Runlog For Sequence/QC Batch ID # LB93949

Review By		Review On				
SubDirectory		LB93949		Test : Reactive Cyanide		

STD. NAME	STD REF.#
ICAL Standard	WP62785,WP62787,WP62788,WP62789,WP62790,WP62791,WP62792
ICV Standard	WP62794
CCV Standard	WP62793
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP62795,WP59958,WP60878

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/16/18 10:27		OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/16/18 10:27		OK
3	10PPBCN	10PPBCN	CAL3	03/16/18 10:27		OK
4	50PPBCN	50PPBCN	CAL4	03/16/18 10:27		OK
5	100PPBCN	100PPBCN	CAL5	03/16/18 10:27		OK
6	250PPBCN	250PPBCN	CAL6	03/16/18 10:27		OK
7	500PPBCN	500PPBCN	CAL7	03/16/18 10:27		OK
8	ICV1	ICV1	ICV	03/16/18 11:06		OK
9	ICB1	ICB1	ICB	03/16/18 11:06		OK
10	CCV1	CCV1	CCV	03/16/18 11:06		OK
11	CCB1	CCB1	CCB	03/16/18 11:06		OK
12	PB107414BL	PB107414BL	MB	03/16/18 11:06		OK
13	J1750-02	HR-05-031518-A	SAM	03/16/18 11:06		OK
14	J1750-02DUP	HR-05-031518-ADUP	DUP	03/16/18 11:06		OK
15	J1750-04	HR-05-031518-B	SAM	03/16/18 11:06		OK
16	J1750-06	HR-05-031518-C	SAM	03/16/18 11:06		OK
17	J1756-06	OR-02-031518	SAM	03/16/18 11:06		OK
18	J1938-04	CS-1	SAM	03/16/18 11:06		OK
19	J1938-08	CS-2	SAM	03/16/18 11:12		OK
20	J1938-12	CS-3	SAM	03/16/18 11:12		OK
21	J1940-02	SP-1-5	SAM	03/16/18 11:12		OK



Instrument ID : KONELAB

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

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SubDirectory		Test : Reactive Cyanide				
LB93949						
STD. NAME		STD REF.#				
ICAL Standard		WP62785,WP62787,WP62788,WP62789,WP62790,WP62791,WP62792				
ICV Standard		WP62794				
CCV Standard		WP62793				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP62795,WP59958,WP60878				
22	CCV2	CCV2	CCV	03/16/18 11:12		OK
23	CCB2	CCB2	CCB	03/16/18 11:12		OK
24	J1945-04	SP-A	SAM	03/16/18 11:12		OK
25	CCV3	CCV3	CCV	03/16/18 11:12		OK
26	CCB3	CCB3	CCB	03/16/18 11:12		OK

Report of Analysis

Client:		Date Collected:	3/15/2018 12:00:00 AM
Project:	LB93949	Date Received:	3/15/2018 12:00:00 AM
Client Sample ID:	HR-05-031518-A	SDG No.:	LB93949
Lab Sample ID:	J1750-02	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	-0.0084	U	1	0.025		0.05	mg/Kg	03/16/2018	03/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/15/2018 12:00:00 AM
Project:	LB93949	Date Received:	3/15/2018 12:00:00 AM
Client Sample ID:	HR-05-031518-B	SDG No.:	LB93949
Lab Sample ID:	J1750-04	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	-0.01	U	1	0.025		0.05	mg/Kg	03/16/2018	03/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/15/2018 12:00:00 AM
Project:	LB93949	Date Received:	3/15/2018 12:00:00 AM
Client Sample ID:	HR-05-031518-C	SDG No.:	LB93949
Lab Sample ID:	J1750-06	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	-0.011	U	1	0.025		0.05	mg/Kg	03/16/2018	03/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/15/2018 12:00:00 AM
Project:	LB93949	Date Received:	3/15/2018 12:00:00 AM
Client Sample ID:	OR-02-031518	SDG No.:	LB93949
Lab Sample ID:	J1756-06	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	-0.0096	U	1	0.025		0.05	mg/Kg	03/16/2018	03/16/2018	9012B

Report of Analysis

Client:		Date Collected:	3/15/2018 12:00:00 AM
Project:	LB93949	Date Received:	3/15/2018 12:00:00 AM
Client Sample ID:	CS-1	SDG No.:	LB93949
Lab Sample ID:	J1938-04	Matrix:	Solid
Level (low/med):	low	% Solid:	91.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0089	U	1	0.025		0.05	mg/Kg	03/16/2018	03/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/15/2018 12:00:00 AM
Project:	LB93949	Date Received:	3/15/2018 12:00:00 AM
Client Sample ID:	CS-2	SDG No.:	LB93949
Lab Sample ID:	J1938-08	Matrix:	Solid
Level (low/med):	low	% Solid:	90.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0091	U	1	0.025		0.05	mg/Kg	03/16/2018	03/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/15/2018 12:00:00 AM
Project:	LB93949	Date Received:	3/15/2018 12:00:00 AM
Client Sample ID:	CS-3	SDG No.:	LB93949
Lab Sample ID:	J1938-12	Matrix:	Solid
Level (low/med):	low	% Solid:	92.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.009	U	1	0.025		0.05	mg/Kg	03/16/2018	03/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/15/2018 12:00:00 AM
Project:	LB93949	Date Received:	3/15/2018 12:00:00 AM
Client Sample ID:	SP-1-5	SDG No.:	LB93949
Lab Sample ID:	J1940-02	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	-0.0075	U	1	0.025		0.05	mg/Kg	03/16/2018	03/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/15/2018 12:00:00 AM
Project:	LB93949	Date Received:	3/15/2018 12:00:00 AM
Client Sample ID:	SP-A	SDG No.:	LB93949
Lab Sample ID:	J1945-04	Matrix:	Solid
Level (low/med):	low	% Solid:	89.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0067	U	1	0.025		0.05	mg/Kg	03/16/2018	03/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/15/2018 12:00:00 AM
Project:	LB93949	Date Received:	3/15/2018 12:00:00 AM
Client Sample ID:	SP-A	SDG No.:	LB93949
Lab Sample ID:	J1945-04	Matrix:	Solid
Level (low/med):	low	% Solid:	89.1

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: LB93949

SDG No.: LB93949

Contract: _____ Lab Code: CHEM

Case No.: LB93949

SAS No.: LB93949

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	0.097	0.099	98		85 - 115		03/16/2018	11:06	LB93949



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93949

SDG No.: LB93949

Contract: _____ Lab Code: CHEM

Case No.: LB93949

SAS No.: LB93949

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	0.25	0.25	100		90 - 110		03/16/2018	11:06	LB93949
CCV2	Reactive Cyanide	0.25	0.25	100		90 - 110		03/16/2018	11:12	LB93949
CCV3	Reactive Cyanide	0.25	0.25	100		90 - 110		03/16/2018	11:12	LB93949



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93949

SDG No.: LB93949

Contract:

Lab Code: CHEM

Case No.: LB93949

SAS No.: LB93949

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.00049	+/-0.005	U		0.005		03/16/2018	11:06	LB93949

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		03/16/2018	11:06	LB93949
CCB2	Reactive Cyanide	-0.00063	+/-0.005	U		0.005		03/16/2018	11:12	LB93949
CCB3	Reactive Cyanide	-0.00064	+/-0.005	U		0.005		03/16/2018	11:12	LB93949



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93949

SDG No.: LB93949

Contract: Lab Code: CHEM

Case No.: LB93949

SAS No.: LB93949

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: LB93949

SDG No.: LB93949

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
PB107414BL	Reactive Cyanide	SOLID -0.0085	<0.05	Batch Number: U		PB107414 0.05		Prep Date: 03/16/2018	03/16/2018 11:06	LB93949

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DUPLICATE SAMPLE SUMMARY

Client: LB93949 **Level:** LOW **SDG No.:** LB93949
Contract: **Lab Code:** CHEM **Case No.:** LB93949 **SAS No.:** LB93949
Matrix: Solid **Sample ID:** J1750-02 **Client ID:** HR-05-031518-ADUP
Percent Solids for Sample: 100 **Duplicate ID** J1750-02DUP **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	-0.013	U			