

Daily Analysis Runlog For Sequence/QC Batch ID # LB93955

Review By		Review On				
SubDirectory		LB93955		Test : Cyanide		

STD. NAME	STD REF.#
ICAL Standard	WP62785,WP62787,WP62788,WP62789,WP62790,WP62791,WP62792
ICV Standard	W1542
CCV Standard	WP62793
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP58910
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 12:48		OK
9	ICB1	ICB1	ICB	03/16/18 12:48		OK
10	CCV1	CCV1	CCV	03/16/18 12:48		OK
11	CCB1	CCB1	CCB	03/16/18 12:48		OK
12	PB107418BL	PB107418BL	MB	03/16/18 12:48		OK
13	PB107418BS	PB107418BS	LCS	03/16/18 12:48		OK
14	LOWPB107418	LOWPB107418	SAM	03/16/18 12:48		OK
15	HIGHPB107418	HIGHPB107418	SAM	03/16/18 12:48		OK
16	J1750-01	HR-05-031518-A	SAM	03/16/18 12:48		OK
17	J1750-01DUP	HR-05-031518-ADUP	DUP	03/16/18 12:48		OK
18	J1750-01MS	HR-05-031518-AMS	MS	03/16/18 12:48		OK
19	J1750-01MSD	HR-05-031518-AMSD	MSD	03/16/18 12:55		OK
20	J1750-03	HR-05-031518-B	SAM	03/16/18 12:55		OK
21	J1750-05	HR-05-031518-C	SAM	03/16/18 12:55		OK

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ICV Standard		W1542				
CCV Standard		WP62793				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62795,WP59958,WP60878				
22	CCV2	CCV2	CCV	03/16/18 12:55		OK
23	CCB2	CCB2	CCB	03/16/18 12:55		OK
24	J1756-05	OR-02-031518	SAM	03/16/18 12:55		OK
25	J1938-01	CS-1	SAM	03/16/18 12:56		OK
26	J1938-05	CS-2	SAM	03/16/18 12:56		OK
27	J1938-09	CS-3	SAM	03/16/18 12:56		OK
28	J1940-01	SP-1-5	SAM	03/16/18 12:56		OK
29	J1945-01	SP-A	SAM	03/16/18 12:56		OK
30	CCV3	CCV3	CCV	03/16/18 13:01		OK
31	CCB3	CCB3	CCB	03/16/18 13:01		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB93955	Date Received:	
Client Sample ID:	HIGHPB107418	SDG No.:	LB93955
Lab Sample ID:	HIGHPB107418	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.49		1	0.003		0.005	mg/L		03/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/15/2018 12:00:00 AM
Project:	LB93955	Date Received:	3/15/2018 12:00:00 AM
Client Sample ID:	HR-05-031518-A	SDG No.:	LB93955
Lab Sample ID:	J1750-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.034	U	1	0.036		0.28	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:	LB93955	Date Received:	3/15/2018 12:00:00 AM
Client Sample ID:	HR-05-031518-B	SDG No.:	LB93955
Lab Sample ID:	J1750-03	Matrix:	Solid
Level (low/med):	low	% Solid:	89.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0069	U	1	0.037		0.28	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:	LB93955	Date Received:	3/15/2018 12:00:00 AM
Client Sample ID:	HR-05-031518-C	SDG No.:	LB93955
Lab Sample ID:	J1750-05	Matrix:	Solid
Level (low/med):	low	% Solid:	89.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.01	U	1	0.036		0.27	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:	LB93955	Date Received:	3/15/2018 12:00:00 AM
Client Sample ID:	OR-02-031518	SDG No.:	LB93955
Lab Sample ID:	J1756-05	Matrix:	Solid
Level (low/med):	low	% Solid:	89.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.087	J	1	0.035		0.27	mg/Kg	03/16/2018	03/16/2018	9012B

Report of Analysis

Client:		Date Collected:	3/15/2018 12:00:00 AM
Project:	LB93955	Date Received:	3/15/2018 12:00:00 AM
Client Sample ID:	CS-1	SDG No.:	LB93955
Lab Sample ID:	J1938-01	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.
57-12-5	Cyanide	-0.014	U	1	0.034		0.26	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:	LB93955	Date Received:	3/15/2018 12:00:00 AM
Client Sample ID:	CS-2	SDG No.:	LB93955
Lab Sample ID:	J1938-05	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.
57-12-5	Cyanide	0.056	J	1	0.036		0.27	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:	LB93955	Date Received:	3/15/2018 12:00:00 AM
Client Sample ID:	CS-3	SDG No.:	LB93955
Lab Sample ID:	J1938-09	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.
57-12-5	Cyanide	0.0013	U	1	0.035		0.26	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:	LB93955	Date Received:	3/15/2018 12:00:00 AM
Client Sample ID:	SP-1-5	SDG No.:	LB93955
Lab Sample ID:	J1940-01	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.
57-12-5	Cyanide	0.31		1	0.036		0.27	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:	LB93955	Date Received:	3/15/2018 12:00:00 AM
Client Sample ID:	SP-A	SDG No.:	LB93955
Lab Sample ID:	J1945-01	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.
57-12-5	Cyanide	-0.0064	U	1	0.037		0.28	mg/Kg	03/16/2018	03/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93955	Date Received:	
Client Sample ID:	LOWPB107418	SDG No.:	LB93955
Lab Sample ID:	LOWPB107418	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0095		1	0.003		0.005	mg/L		03/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93955	Date Received:	
Client Sample ID:	LOWPB107418	SDG No.:	LB93955
Lab Sample ID:	LOWPB107418	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: LB93955

SDG No.: LB93955

Contract: _____ Lab Code: CHEM

Case No.: LB93955

SAS No.: LB93955

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	Cyanide	0.098	0.099	99		85 - 115		03/16/2018	12:48	LB93955



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93955

SDG No.: LB93955

Contract: _____ Lab Code: CHEM

Case No.: LB93955

SAS No.: LB93955

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	Cyanide	0.25	0.25	100		90 - 110		03/16/2018	12:48	LB93955
CCV2	Cyanide	0.25	0.25	100		90 - 110		03/16/2018	12:55	LB93955
CCV3	Cyanide	0.26	0.25	104		90 - 110		03/16/2018	13:01	LB93955



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93955 **SDG No.:** LB93955
Contract: **Lab Code:** CHEM **Case No.:** LB93955 **SAS No.:** LB93955

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00019	+/-0.005	U		0.005		03/16/2018	12:48	LB93955



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93955

SDG No.: LB93955

Contract:

Lab Code: CHEM

Case No.: LB93955

SAS No.: LB93955

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00044	+/-0.005	U		0.005		03/16/2018	12:48	LB93955
CCB2	Cyanide	-0.00028	+/-0.005	U		0.005		03/16/2018	12:55	LB93955
CCB3	Cyanide	-0.0011	+/-0.005	U		0.005		03/16/2018	13:01	LB93955



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93955

SDG No.: LB93955

Contract: Lab Code: CHEM

Case No.: LB93955

SAS No.: LB93955

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: LB93955

SDG No.: LB93955

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
PB107418BL		SOLID		Batch Number:		PB107418		Prep Date:	03/16/2018	
	Cyanide	0.026	<0.25	U		0.25		03/16/2018	12:48	LB93955



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- 5a -
MATRIX SPIKE SUMMARY

client: LB93955 level: low sdg no.: LB93955
contract: lab code: CHEM case no.: LB93955 sas no.: LB93955
matrix: Solid sample id: J1750-01 client id: HR-05-031518-AMS
Percent Solids for Sample: 88.9 Spiked ID: J1750-01MS Percent Solids for Spike Sample: 88.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2		0.036	U	2.2	90.9		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93955 level: low sdg no.: LB93955
contract: lab code: CHEM case no.: LB93955 sas no.: LB93955
matrix: Solid sample id: J1750-01 client id: HR-05-031518-AMSD
Percent Solids for Sample: 88.9 Spiked ID: J1750-01MSD Percent Solids for Spike Sample: 88.9

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125		2	0.036	U	2.2	90.9		

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DUPLICATE SAMPLE SUMMARY

Client: LB93955 **Level:** LOW **SDG No.:** LB93955
Contract: **Lab Code:** CHEM **Case No.:** LB93955 **SAS No.:** LB93955
Matrix: Solid **Sample ID:** J1750-01 **Client ID:** HR-05-031518-ADUP
Percent Solids for Sample: 88.9 **Duplicate ID** J1750-01DUP **Percent Solids for Spike Sample:** 88.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.036	U	0.012	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB93955 **Level:** LOW **SDG No.:** LB93955
Contract: **Lab Code:** CHEM **Case No.:** LB93955 **SAS No.:** LB93955
Matrix: Solid **Sample ID:** J1750-01MS **Client ID:** HR-05-031518-AMSD
Percent Solids for Sample: 88.9 **Duplicate ID** J1750-01MSD **Percent Solids for Spike Sample:** 88.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2		2		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93955

SDG No.: LB93955

Contract:

Lab Code: CHEM

Case No.: LB93955

SAS No.: LB93955

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB107418BS Cyanide	mg/Kg	4.8	4.9		102.1	85 - 115	