

Daily Analysis Runlog For Sequence/QC Batch ID # LB96155

Review By		Review On				
SubDirectory		LB96155		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP65448,WP65449,WP65450,WP65451,WP65452,WP65453,WP65454				
ICV Standard		W1542				
CCV Standard		WP65455				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP65457,WP64695,WP64696				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/20/18 08:14		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/20/18 08:14		OK
3	10PPBCN	10PPBCN	CAL3	06/20/18 08:14		OK
4	50PPBCN	50PPBCN	CAL4	06/20/18 08:14		OK
5	100PPBCN	100PPBCN	CAL5	06/20/18 08:14		OK
6	250PPBCN	250PPBCN	CAL6	06/20/18 08:14		OK
7	500PPBCN	500PPBCN	CAL7	06/20/18 08:14		OK
8	ICV1	ICV1	ICV	06/20/18 12:53		OK
9	ICB1	ICB1	ICB	06/20/18 12:53		OK
10	CCV1	CCV1	CCV	06/20/18 12:53		OK
11	CCB1	CCB1	CCB	06/20/18 12:53		OK
12	PB110420BL	PB110420BL	MB	06/20/18 12:53		OK
13	PB110420BS	PB110420BS	LCS	06/20/18 12:53		OK
14	LOWPB110420	LOWPB110420	SAM	06/20/18 12:53		OK
15	HIGHPB110420	HIGHPB110420	SAM	06/20/18 12:53		OK
16	J3603-01	26KV-TP-1	SAM	06/20/18 12:53		OK
17	J3603-01DUP	26KV-TP-1DUP	DUP	06/20/18 12:53		OK
18	J3603-01MS	26KV-TP-1MS	MS	06/20/18 12:53		OK
19	J3603-01MSD	26KV-TP-1MSD	MSD	06/20/18 13:01		OK
20	J3603-03	26KV-TP-2	SAM	06/20/18 13:01		OK
21	J3603-05	26KV-TP-3	SAM	06/20/18 13:01		OK

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SubDirectory		LB96155		Test : Cyanide		
STD. NAME		STD REF.#				
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ICV Standard		W1542				
CCV Standard		WP65455				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP65457,WP64695,WP64696				
22	CCV2	CCV2	CCV	06/20/18 13:01		OK
23	CCB2	CCB2	CCB	06/20/18 13:01		OK
24	J3603-07	26KV-TP-4	SAM	06/20/18 13:01		OK
25	J3603-09	26KV-TP-5	SAM	06/20/18 13:01		OK
26	J3603-11	26KV-CSM	SAM	06/20/18 13:01		OK
27	J3603-13	26KV-TP-10	SAM	06/20/18 13:01		OK
28	J3603-17	26KV-TP-8	SAM	06/20/18 13:01		OK
29	J3603-19	26KV-TP-7	SAM	06/20/18 13:06		OK
30	J3603-21	26KV-TP-6	SAM	06/20/18 13:06		OK
31	J3603-23	26KV-TP-11	SAM	06/20/18 13:06		OK
32	CCV3	CCV3	CCV	06/20/18 13:06		OK
33	CCB3	CCB3	CCB	06/20/18 13:06		OK
34	J3603-15	26KV-TP-9	SAM	06/20/18 13:30		OK
35	CCV4	CCV4	CCV	06/20/18 13:30		OK
36	CCB4	CCB4	CCB	06/20/18 13:30		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB96155	Date Received:	
Client Sample ID:	HIGHPB110420	SDG No.:	LB96155
Lab Sample ID:	HIGHPB110420	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	0.5		1	0.003		0.005	mg/L		06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96155	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-1	SDG No.:	LB96155
Lab Sample ID:	J3603-01	Matrix:	Solid
Level (low/med):	low	% Solid:	67.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.047		0.35	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96155	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-2	SDG No.:	LB96155
Lab Sample ID:	J3603-03	Matrix:	Solid
Level (low/med):	low	% Solid:	74.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.58		1	0.043		0.32	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96155	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-3	SDG No.:	LB96155
Lab Sample ID:	J3603-05	Matrix:	Solid
Level (low/med):	low	% Solid:	82.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.32		1	0.038		0.29	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96155	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-4	SDG No.:	LB96155
Lab Sample ID:	J3603-07	Matrix:	Solid
Level (low/med):	low	% Solid:	80.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.19	J	1	0.039		0.29	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96155	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-5	SDG No.:	LB96155
Lab Sample ID:	J3603-09	Matrix:	Solid
Level (low/med):	low	% Solid:	78.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.013	U	1	0.04		0.3	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96155	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-CSM	SDG No.:	LB96155
Lab Sample ID:	J3603-11	Matrix:	Solid
Level (low/med):	low	% Solid:	94.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.07	J	1	0.034		0.26	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96155	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-10	SDG No.:	LB96155
Lab Sample ID:	J3603-13	Matrix:	Solid
Level (low/med):	low	% Solid:	81.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.04		0.3	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96155	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-9	SDG No.:	LB96155
Lab Sample ID:	J3603-15	Matrix:	Solid
Level (low/med):	low	% Solid:	70.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.046		0.35	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96155	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-8	SDG No.:	LB96155
Lab Sample ID:	J3603-17	Matrix:	Solid
Level (low/med):	low	% Solid:	76.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.078	J	1	0.041		0.31	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96155	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-7	SDG No.:	LB96155
Lab Sample ID:	J3603-19	Matrix:	Solid
Level (low/med):	low	% Solid:	71.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.039	U	1	0.042		0.32	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96155	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-6	SDG No.:	LB96155
Lab Sample ID:	J3603-21	Matrix:	Solid
Level (low/med):	low	% Solid:	72.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.29	J	1	0.042		0.32	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96155	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-11	SDG No.:	LB96155
Lab Sample ID:	J3603-23	Matrix:	Solid
Level (low/med):	low	% Solid:	73.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.21	J	1	0.042		0.32	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB96155	Date Received:	
Client Sample ID:	LOWPB110420	SDG No.:	LB96155
Lab Sample ID:	LOWPB110420	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	0.01		1	0.003		0.005	mg/L		06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB96155	Date Received:	
Client Sample ID:	LOWPB110420	SDG No.:	LB96155
Lab Sample ID:	LOWPB110420	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: LB96155

SDG No.: LB96155

Contract: _____ Lab Code: CHEM

Case No.: LB96155

SAS No.: LB96155

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	0.097	0.099	98		85 - 115		06/20/2018	12:53	LB96155



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB96155

SDG No.: LB96155

Contract: _____ Lab Code: CHEM

Case No.: LB96155

SAS No.: LB96155

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	0.24	0.25	96		90 - 110		06/20/2018	12:53	LB96155
CCV2	Cyanide	0.24	0.25	96		90 - 110		06/20/2018	13:01	LB96155
CCV3	Cyanide	0.25	0.25	100		90 - 110		06/20/2018	13:06	LB96155
CCV4	Cyanide	0.26	0.25	104		90 - 110		06/20/2018	13:30	LB96155



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96155 **SDG No.:** LB96155
Contract: **Lab Code:** CHEM **Case No.:** LB96155 **SAS No.:** LB96155

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.0004	+/-0.005	U		0.005		06/20/2018	12:53	LB96155



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96155

SDG No.: LB96155

Contract:

Lab Code: CHEM

Case No.: LB96155

SAS No.: LB96155

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00014	+/-0.005	U		0.005		06/20/2018	12:53	LB96155
CCB2	Cyanide	0.00012	+/-0.005	U		0.005		06/20/2018	13:01	LB96155
CCB3	Cyanide	0	+/-0.005	U		0.005		06/20/2018	13:06	LB96155
CCB4	Cyanide	0.0001	+/-0.005	U		0.005		06/20/2018	13:30	LB96155



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96155

SDG No.: LB96155

Contract:

Lab Code: CHEM

Case No.: LB96155

SAS No.: LB96155

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: LB96155

SDG No.: LB96155

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
PB110420BL		SOLID		Batch Number:		PB110420		Prep Date:	06/20/2018	
	Cyanide	0.032	<0.25	J		0.25		06/20/2018	12:53	LB96155



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB96155 level: low sdg no.: LB96155
contract: lab code: CHEM case no.: LB96155 sas no.: LB96155
matrix: Solid sample id: J3603-01 client id: 26KV-TP-1MS
Percent Solids for Sample: 67.8 Spiked ID: J3603-01MS Percent Solids for Spike Sample: 67.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.3		0.12	J	2.9	75		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB96155 level: low sdg no.: LB96155
contract: lab code: CHEM case no.: LB96155 sas no.: LB96155
matrix: Solid sample id: J3603-01 client id: 26KV-TP-1MSD
Percent Solids for Sample: 67.8 Spiked ID: J3603-01MSD Percent Solids for Spike Sample: 67.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.3		0.12	J	2.8	78		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB96155 **Level:** LOW **SDG No.:** LB96155
Contract: **Lab Code:** CHEM **Case No.:** LB96155 **SAS No.:** LB96155
Matrix: Solid **Sample ID:** J3603-01 **Client ID:** 26KV-TP-1DUP
Percent Solids for Sample: 67.8 **Duplicate ID** J3603-01DUP **Percent Solids for Spike Sample:** 67.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.12	J	0.078	J	42	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB96155 **Level:** LOW **SDG No.:** LB96155
Contract: **Lab Code:** CHEM **Case No.:** LB96155 **SAS No.:** LB96155
Matrix: Solid **Sample ID:** J3603-01MS **Client ID:** 26KV-TP-1MSD
Percent Solids for Sample: 67.8 **Duplicate ID** J3603-01MSD **Percent Solids for Spike Sample:** 67.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.3		2.3		0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB96155

SDG No.: LB96155

Contract:

Lab Code: CHEM

Case No.: LB96155

SAS No.: LB96155

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB110420BS Cyanide	mg/Kg	5	4.8		96	85 - 115	