

Daily Analysis Runlog For Sequence/QC Batch ID # LB96160

Review By		Review On				
SubDirectory		LB96160		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 15:35		OK
9	ICB1	ICB1	ICB	06/20/18 15:35		OK
10	CCV1	CCV1	CCV	06/20/18 15:35		OK
11	CCB1	CCB1	CCB	06/20/18 15:35		OK
12	PB110433BL	PB110433BL	MB	06/20/18 15:35		OK
13	PB110433BS	PB110433BS	LCS	06/20/18 15:35		OK
14	J3245-09	CL-02-061918-A	SAM	06/20/18 15:35		OK
15	J3245-09DUP	CL-02-061918-ADUP	DUP	06/20/18 15:35		OK
16	J3245-09MS	CL-02-061918-AMS	MS	06/20/18 15:35		OK
17	J3245-09MSD	CL-02-061918-AMSD	MSD	06/20/18 15:35		OK
18	J3245-11	CL-02-061918-B	SAM	06/20/18 15:35		OK
19	J3245-13	CL-02-061918-C	SAM	06/20/18 15:43		OK
20	J3245-15	CL-02-061918-D	SAM	06/20/18 15:43		OK
21	J3247-05	OR-01-061918	SAM	06/20/18 15:43		OK

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SubDirectory		LB96160		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				
22	CCV2	CCV2	CCV	06/20/18 15:43		OK
23	CCB2	CCB2	CCB	06/20/18 15:43		OK
24	J3594-01	HC-SOIL-1	SAM	06/20/18 15:43		OK
25	J3594-03	HC-SOIL-2	SAM	06/20/18 15:43		OK
26	J3594-05	HC-SOIL-3	SAM	06/20/18 15:43		OK
27	J3594-07	HC-SOIL-4	SAM	06/20/18 15:43		OK
28	J3595-01	SC-01-ABC	SAM	06/20/18 15:43		OK
29	J3595-03	SC-02-AB	SAM	06/20/18 15:43		OK
30	J3606-01	FK-PS-01-030	SAM	06/20/18 15:47		OK
31	CCV3	CCV3	CCV	06/20/18 15:47		OK
32	CCB3	CCB3	CCB	06/20/18 15:47		OK



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96160	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	CL-02-061918-A	SDG No.:	LB96160
Lab Sample ID:	J3245-09	Matrix:	Solid
Level (low/med):	low	% Solid:	92.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.069	J	1	0.035		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:	LB96160	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	CL-02-061918-B	SDG No.:	LB96160
Lab Sample ID:	J3245-11	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	0.12	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:	LB96160	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	CL-02-061918-C	SDG No.:	LB96160
Lab Sample ID:	J3245-13	Matrix:	Solid
Level (low/med):	low	% Solid:	94

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.048	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:	LB96160	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	CL-02-061918-D	SDG No.:	LB96160
Lab Sample ID:	J3245-15	Matrix:	Solid
Level (low/med):	low	% Solid:	94.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.021	U	1	0.033		0.25	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:	LB96160	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	OR-01-061918	SDG No.:	LB96160
Lab Sample ID:	J3247-05	Matrix:	Solid
Level (low/med):	low	% Solid:	91.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.035		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:	LB96160	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	HC-SOIL-1	SDG No.:	LB96160
Lab Sample ID:	J3594-01	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	0.048	J	1	0.036		0.27	mg/Kg	06/20/2018	06/20/2018	9012B

Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96160	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	HC-SOIL-2	SDG No.:	LB96160
Lab Sample ID:	J3594-03	Matrix:	Solid
Level (low/med):	low	% Solid:	89

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.34		1	0.036		0.28	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:	LB96160	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	HC-SOIL-3	SDG No.:	LB96160
Lab Sample ID:	J3594-05	Matrix:	Solid
Level (low/med):	low	% Solid:	89

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.074	J	1	0.037		0.28	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:	LB96160	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	HC-SOIL-4	SDG No.:	LB96160
Lab Sample ID:	J3594-07	Matrix:	Solid
Level (low/med):	low	% Solid:	91.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.068	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:	LB96160	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	SC-01-ABC	SDG No.:	LB96160
Lab Sample ID:	J3595-01	Matrix:	Solid
Level (low/med):	low	% Solid:	93.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.063	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:	LB96160	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	SC-02-AB	SDG No.:	LB96160
Lab Sample ID:	J3595-03	Matrix:	Solid
Level (low/med):	low	% Solid:	91.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.34		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:	LB96160	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	FK-PS-01-030	SDG No.:	LB96160
Lab Sample ID:	J3606-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.012	U	1	0.036		0.27	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:	LB96160	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	FK-PS-01-030	SDG No.:	LB96160
Lab Sample ID:	J3606-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90.2

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: LB96160

SDG No.: LB96160

Contract: _____ Lab Code: CHEM

Case No.: LB96160

SAS No.: LB96160

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	15:35	LB96160
CCV2	Cyanide	0.25	0.25	100		90 - 110		06/20/2018	15:43	LB96160
CCV3	Cyanide	0.26	0.25	104		90 - 110		06/20/2018	15:47	LB96160



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96160 **SDG No.:** LB96160
Contract: **Lab Code:** CHEM **Case No.:** LB96160 **SAS No.:** LB96160

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.0007	+/-0.005	U		0.005		06/20/2018	15:35	LB96160



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96160

SDG No.: LB96160

Contract: _____

Lab Code: CHEM

Case No.: LB96160

SAS No.: LB96160

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00045	+/-0.005	U		0.005		06/20/2018	15:35	LB96160
CCB2	Cyanide	0.00024	+/-0.005	U		0.005		06/20/2018	15:43	LB96160
CCB3	Cyanide	0.00037	+/-0.005	U		0.005		06/20/2018	15:47	LB96160



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96160

SDG No.: LB96160

Contract: Lab Code: CHEM

Case No.: LB96160

SAS No.: LB96160

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: LB96160

SDG No.: LB96160

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
PB110433BL		SOLID		Batch Number:		PB110433		Prep Date:	06/20/2018	
	Cyanide	0.026	<0.24	U		0.24		06/20/2018	15:35	LB96160

GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB96160 level: low sdg no.: LB96160
contract: lab code: CHEM case no.: LB96160 sas no.: LB96160
matrix: Solid sample id: J3245-09 client id: CL-02-061918-AMS
Percent Solids for Sample: 92.8 Spiked ID: J3245-09MS Percent Solids for Spike Sample: 92.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2		0.069	J	2.1	92		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB96160 level: low sdg no.: LB96160
contract: lab code: CHEM case no.: LB96160 sas no.: LB96160
matrix: Solid sample id: J3245-09 client id: CL-02-061918-AMSD
Percent Solids for Sample: 92.8 Spiked ID: J3245-09MSD Percent Solids for Spike Sample: 92.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125		2	0.069	J	2.1	92		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB96160 **Level:** LOW **SDG No.:** LB96160
Contract: **Lab Code:** CHEM **Case No.:** LB96160 **SAS No.:** LB96160
Matrix: Solid **Sample ID:** J3245-09 **Client ID:** CL-02-061918-ADUP
Percent Solids for Sample: 92.8 **Duplicate ID** J3245-09DUP **Percent Solids for Spike Sample:** 92.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.069	J	0.067	J	3		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB96160 **Level:** LOW **SDG No.:** LB96160
Contract: **Lab Code:** CHEM **Case No.:** LB96160 **SAS No.:** LB96160
Matrix: Solid **Sample ID:** J3245-09MS **Client ID:** CL-02-061918-AMSD
Percent Solids for Sample: 92.8 **Duplicate ID** J3245-09MSD **Percent Solids for Spike Sample:** 92.8

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: LB96160

SDG No.: LB96160

Contract:

Lab Code: CHEM

Case No.: LB96160

SAS No.: LB96160

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB110433BS Cyanide	mg/Kg	4.9	4.9		100	85 - 115	