

Daily Analysis Runlog For Sequence/QC Batch ID # LB90446

Review By		Review On				
SubDirectory		LB90446		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		wp58393,wp58394,wp583295,wp58396,wp58397,wp58398,wp58391				
ICV Standard		wp58399				
CCV Standard		wp58400				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		wp58401,wp55355,wp55836				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	09/29/17 11:18		OK
2	5.0PPBCN	5.0PPBCN	CAL2	09/29/17 11:18		OK
3	10PPBCN	10PPBCN	CAL3	09/29/17 11:18		OK
4	50PPBCN	50PPBCN	CAL4	09/29/17 11:18		OK
5	100PPBCN	100PPBCN	CAL5	09/29/17 11:18		OK
6	250PPBCN	250PPBCN	CAL6	09/29/17 11:18		OK
7	500PPBCN	500PPBCN	CAL7	09/29/17 11:18		OK
8	ICV1	ICV1	ICV	09/29/17 16:18		OK
9	ICB1	ICB1	ICB	09/29/17 16:18		OK
10	CCV1	CCV1	CCV	09/29/17 16:19		OK
11	CCB1	CCB1	CCB	09/29/17 16:19		OK
12	PB102745BL	PB102745BL	MB	09/29/17 16:19		OK
13	PB102745BS	PB102745BS	LCS	09/29/17 16:19		OK
14	LOWPB102745	LOWPB102745	SAM	09/29/17 16:26		OK
15	HIGHPB102745	HIGHPB102745	SAM	09/29/17 16:26		OK
16	I5487-07	CL-02-092717-C	SAM	09/29/17 16:26		OK
17	I5487-10	CL-02-092717-D	SAM	09/29/17 16:26		OK
18	I5509-01	LEONIA-GENERATOR	SAM	09/29/17 16:26		OK
19	I5509-01DUP	LEONIA-GENERATOR	DUP	09/29/17 16:26		OK
20	I5509-01MS	LEONIA-GENERATOR	MS	09/29/17 16:26		OK
21	I5509-01MSD	LEONIA-GENERATOR	MSD	09/29/17 16:26		OK

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ICV Standard		wp58399				
CCV Standard		wp58400				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		wp58401,wp55355,wp55836				
22	CCV2	CCV2	CCV	09/29/17 16:26		OK
23	CCB2	CCB2	CCB	09/29/17 16:34		OK
24	I5514-01	SU-03-092817	SAM	09/29/17 16:34		OK
25	I5515-01	HD-02-092817	SAM	09/29/17 16:34		OK
26	I5532-01	G-64A-0-1.5	SAM	09/29/17 16:34		OK
27	I5532-03	G-64A-1.5-3	SAM	09/29/17 16:34		OK
28	I5532-05	G-65-0-1	SAM	09/29/17 16:34		OK
29	I5532-07	G-65-1-2	SAM	09/29/17 16:34		OK
30	I5532-09	G-66-0-1	SAM	09/29/17 16:34		OK
31	I5532-11	G-66-1-2	SAM	09/29/17 16:34		OK
32	I5511-01	EO-01-092817	SAM	09/29/17 17:00		OK
33	CCV3	CCV3	CCV	09/29/17 17:00		OK
34	CCB3	CCB3	CCB	09/29/17 17:00		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB90446	Date Received:	
Client Sample ID:	HIGHPB102745	SDG No.:	LB90446
Lab Sample ID:	HIGHPB102745	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		09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90446	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	CL-02-092717-C	SDG No.:	LB90446
Lab Sample ID:	I5487-07	Matrix:	Solid
Level (low/med):	low	% Solid:	95.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.05	J	1	0.033		0.25	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90446	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	CL-02-092717-D	SDG No.:	LB90446
Lab Sample ID:	I5487-10	Matrix:	Solid
Level (low/med):	low	% Solid:	95.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.048	J	1	0.033		0.25	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90446	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	LEONIA-GENERATOR-COMP	SDG No.:	LB90446
Lab Sample ID:	I5509-01	Matrix:	Solid
Level (low/med):	low	% Solid:	87.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.032	U	1	0.037		0.28	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90446	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	EO-01-092817	SDG No.:	LB90446
Lab Sample ID:	I5511-01	Matrix:	Solid
Level (low/med):	low	% Solid:	93.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.047	J	1	0.034		0.26	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90446	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	SU-03-092817	SDG No.:	LB90446
Lab Sample ID:	I5514-01	Matrix:	Solid
Level (low/med):	low	% Solid:	95.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.049	J	1	0.033		0.25	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90446	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	HD-02-092817	SDG No.:	LB90446
Lab Sample ID:	I5515-01	Matrix:	Solid
Level (low/med):	low	% Solid:	95.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.015	U	1	0.034		0.25	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90446	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-64A-0-1.5	SDG No.:	LB90446
Lab Sample ID:	I5532-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.036		0.27	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90446	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-64A-1.5-3	SDG No.:	LB90446
Lab Sample ID:	I5532-03	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.
57-12-5	Cyanide	0.1	J	1	0.037		0.28	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90446	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-65-0-1	SDG No.:	LB90446
Lab Sample ID:	I5532-05	Matrix:	Solid
Level (low/med):	low	% Solid:	87.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.33		1	0.036		0.27	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90446	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-65-1-2	SDG No.:	LB90446
Lab Sample ID:	I5532-07	Matrix:	Solid
Level (low/med):	low	% Solid:	89.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.35		1	0.035		0.27	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90446	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-66-0-1	SDG No.:	LB90446
Lab Sample ID:	I5532-09	Matrix:	Solid
Level (low/med):	low	% Solid:	90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.45		1	0.036		0.27	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90446	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-66-1-2	SDG No.:	LB90446
Lab Sample ID:	I5532-11	Matrix:	Solid
Level (low/med):	low	% Solid:	91.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.31		1	0.035		0.26	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB90446	Date Received:	
Client Sample ID:	LOWPB102745	SDG No.:	LB90446
Lab Sample ID:	LOWPB102745	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	0.0098		1	0.003		0.005	mg/L		09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB90446	Date Received:	
Client Sample ID:	LOWPB102745	SDG No.:	LB90446
Lab Sample ID:	LOWPB102745	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: LB90446

SDG No.: LB90446

Contract: _____ Lab Code: CHEM

Case No.: LB90446

SAS No.: LB90446

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Cyanide	0.25	0.25	100	0	90 - 110		09/29/2017	16:19	LB90446
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		09/29/2017	16:26	LB90446
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		09/29/2017	17:00	LB90446



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90446

SDG No.: LB90446

Contract:

Lab Code: CHEM

Case No.: LB90446

SAS No.: LB90446

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00045	+/-0.005	U		0.005		09/29/2017	16:18	LB90446

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00084	+/-0.005	U		0.005		09/29/2017	16:19	LB90446
CCB2	Cyanide	0.0013	+/-0.005	U		0.005		09/29/2017	16:34	LB90446
CCB3	Cyanide	0.00075	+/-0.005	U		0.005		09/29/2017	17:00	LB90446



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90446

SDG No.: LB90446

Contract: Lab Code: CHEM

Case No.: LB90446

SAS No.: LB90446

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: LB90446

SDG No.: LB90446

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
PB102745BL		SOLID		Batch Number:		PB102745		Prep Date:	09/29/2017	
	Cyanide	0.021	<0.24	U		0.24		09/29/2017	16:19	LB90446



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90446 level: low sdg no.: LB90446
contract: lab code: CHEM case no.: LB90446 sas no.: LB90446
matrix: Solid sample id: I5509-01 client id: LEONIA-GENERATOR-COMPMS
Percent Solids for Sample: 87.6 Spiked ID: I5509-01MS Percent Solids for Spike Sample: 87.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.037	U	2.2	95.5		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90446 level: low sdg no.: LB90446
contract: lab code: CHEM case no.: LB90446 sas no.: LB90446
matrix: Solid sample id: I5509-01 client id: LEONIA-GENERATOR-COMPMSD
Percent Solids for Sample: 87.6 Spiked ID: I5509-01MSD Percent Solids for Spike Sample: 87.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.037	U	2.2	95.5		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB90446 **Level:** LOW **SDG No.:** LB90446
Contract: **Lab Code:** CHEM **Case No.:** LB90446 **SAS No.:** LB90446
Matrix: Solid **Sample ID:** I5509-01 **Client ID:** LEONIA-GENERATOR-COMPDUP
Percent Solids for Sample: 87.6 **Duplicate ID** I5509-01DUP **Percent Solids for Spike Sample:** 87.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.037	U	0.046	J	200.0		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB90446 **Level:** LOW **SDG No.:** LB90446
Contract: **Lab Code:** CHEM **Case No.:** LB90446 **SAS No.:** LB90446
Matrix: Solid **Sample ID:** I5509-01MS **Client ID:** LEONIA-GENERATOR-COMPMSD
Percent Solids for Sample: 87.6 **Duplicate ID** I5509-01MSD **Percent Solids for Spike Sample:** 87.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.1		2.1		0		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90446

SDG No.: LB90446

Contract:

Lab Code: CHEM

Case No.: LB90446

SAS No.: LB90446

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB102745BS Cyanide	mg/Kg	4.8	4.7		97.9	85 - 115	