

Daily Analysis Runlog For Sequence/QC Batch ID # LB96143

Review By		Review On				
SubDirectory		LB96143		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 09:19		OK
9	ICB1	ICB1	ICB	06/20/18 09:19		OK
10	CCV1	CCV1	CCV	06/20/18 09:19		OK
11	CCB1	CCB1	CCB	06/20/18 09:19		OK
12	PB110395BL	PB110395BL	MB	06/20/18 09:19		OK
13	PB110395BS	PB110395BS	LCS	06/20/18 09:19		OK
14	LOWPB110395	LOWPB110395	SAM	06/20/18 09:19		OK
15	HIGHPB110395	HIGHPB110395	SAM	06/20/18 09:19		OK
16	J3570-01	20180371-COMPOS	SAM	06/20/18 09:19		OK
17	J3570-01DUP	20180371-COMPOS	DUP	06/20/18 09:19		OK
18	J3570-01MS	20180371-COMPOS	MS	06/20/18 09:19		OK
19	J3570-01MSD	20180371-COMPOS	MSD	06/20/18 09:26		OK
20	J3570-02	20180372-COMPOS	SAM	06/20/18 09:26		OK
21	J3570-04	20180374-AMENDEI	SAM	06/20/18 09:26		OK

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SubDirectory		LB96143		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 09:26		OK
23	CCB2	CCB2	CCB	06/20/18 09:26		OK
24	J3570-03	20180373-AMENDEI	SAM	06/20/18 09:26		OK
25	J3584-07	TP-12-D	SAM	06/20/18 09:26		OK
26	J3584-11	TP-3	SAM	06/20/18 09:26		OK
27	J3584-15	TP-2-S	SAM	06/20/18 09:26		OK
28	J3584-19	TP-1-S	SAM	06/20/18 09:26		OK
29	J3584-23	TP-1-D	SAM	06/20/18 09:34		OK
30	PB110404BL	PB110404BL	MB	06/20/18 09:34		OK
31	PB110404BS	PB110404BS	LCS	06/20/18 09:34		OK
32	J3498-03	TP-G-S	SAM	06/20/18 09:34		OK
33	CCV3	CCV3	CCV	06/20/18 09:34		OK
34	CCB3	CCB3	CCB	06/20/18 09:34		OK
35	J3498-03DUP	TP-G-SDUP	DUP	06/20/18 09:34		OK
36	J3498-03MS	TP-G-SMS	MS	06/20/18 09:34		OK
37	J3498-03MSD	TP-G-SMSD	MSD	06/20/18 09:34		OK
38	J3498-07	TP-G-D	SAM	06/20/18 09:34		OK
39	J3573-02	SB-47-COMP	SAM	06/20/18 09:34		OK
40	J3573-03	SB-48-COMP	SAM	06/20/18 09:41		OK
41	J3573-04	SB-49-COMP	SAM	06/20/18 09:41		OK
42	J3573-05	SB-50-COMP	SAM	06/20/18 09:41		OK
43	J3573-06	SB-54-COMP	SAM	06/20/18 09:41		OK

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SubDirectory		Test : Cyanide				
LB96143						
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				
44	J3573-07	SB-45-COMP	SAM	06/20/18 09:41		OK
45	CCV4	CCV4	CCV	06/20/18 09:41		OK
46	CCB4	CCB4	CCB	06/20/18 09:41		OK
47	J3573-18	SB-52-COMP	SAM	06/20/18 09:41		OK
48	J3573-19	SB-53-COMP	SAM	06/20/18 09:41		OK
49	J3584-03	TP-12-S	SAM	06/20/18 09:57		OK
50	CCV5	CCV5	CCV	06/20/18 09:57		OK
51	CCB5	CCB5	CCB	06/20/18 09:57		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB96143	Date Received:	
Client Sample ID:	HIGHPB110395	SDG No.:	LB96143
Lab Sample ID:	HIGHPB110395	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		06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/13/2018 12:00:00 AM
Project:	LB96143	Date Received:	6/13/2018 12:00:00 AM
Client Sample ID:	TP-G-S	SDG No.:	LB96143
Lab Sample ID:	J3498-03	Matrix:	Solid
Level (low/med):	low	% Solid:	86.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.069	J	1	0.037		0.28	mg/Kg	06/19/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/13/2018 12:00:00 AM
Project:	LB96143	Date Received:	6/13/2018 12:00:00 AM
Client Sample ID:	TP-G-D	SDG No.:	LB96143
Lab Sample ID:	J3498-07	Matrix:	Solid
Level (low/med):	low	% Solid:	90

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0071	U	1	0.036		0.27	mg/Kg	06/19/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/7/2018 12:00:00 AM
Project:	LB96143	Date Received:	6/15/2018 12:00:00 AM
Client Sample ID:	20180371-COMPOSITE-CS-1A	SDG No.:	LB96143
Lab Sample ID:	J3570-01	Matrix:	Solid
Level (low/med):	low	% Solid:	65.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.15	J	1	0.049		0.37	mg/Kg	06/19/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/7/2018 12:00:00 AM
Project:	LB96143	Date Received:	6/15/2018 12:00:00 AM
Client Sample ID:	20180372-COMPOSITE-CS-1B	SDG No.:	LB96143
Lab Sample ID:	J3570-02	Matrix:	Solid
Level (low/med):	low	% Solid:	77

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.06	J	1	0.041		0.31	mg/Kg	06/19/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/7/2018 12:00:00 AM
Project:	LB96143	Date Received:	6/15/2018 12:00:00 AM
Client Sample ID:	20180373-AMENDED-COMPOSITE-CS-1A	SDG No.:	LB96143
Lab Sample ID:	J3570-03	Matrix:	Solid
Level (low/med):	low	% Solid:	67.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.17	J	1	0.048		0.36	mg/Kg	06/19/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/7/2018 12:00:00 AM
Project:	LB96143	Date Received:	6/15/2018 12:00:00 AM
Client Sample ID:	20180374-AMENDED-COMPOSITE-CS-1B	SDG No.:	LB96143
Lab Sample ID:	J3570-04	Matrix:	Solid
Level (low/med):	low	% Solid:	79.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.056	J	1	0.039		0.3	mg/Kg	06/19/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/15/2018 12:00:00 AM
Project:	LB96143	Date Received:	6/12/2018 12:00:00 AM
Client Sample ID:	SB-47-COMP	SDG No.:	LB96143
Lab Sample ID:	J3573-02	Matrix:	Solid
Level (low/med):	low	% Solid:	81

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.04	J	1	0.04		0.31	mg/Kg	06/19/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/15/2018 12:00:00 AM
Project:	LB96143	Date Received:	6/12/2018 12:00:00 AM
Client Sample ID:	SB-48-COMP	SDG No.:	LB96143
Lab Sample ID:	J3573-03	Matrix:	Solid
Level (low/med):	low	% Solid:	86.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.021	U	1	0.036		0.27	mg/Kg	06/19/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/15/2018 12:00:00 AM
Project:	LB96143	Date Received:	6/12/2018 12:00:00 AM
Client Sample ID:	SB-49-COMP	SDG No.:	LB96143
Lab Sample ID:	J3573-04	Matrix:	Solid
Level (low/med):	low	% Solid:	81.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.004	U	1	0.039		0.3	mg/Kg	06/19/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/15/2018 12:00:00 AM
Project:	LB96143	Date Received:	6/12/2018 12:00:00 AM
Client Sample ID:	SB-50-COMP	SDG No.:	LB96143
Lab Sample ID:	J3573-05	Matrix:	Solid
Level (low/med):	low	% Solid:	86.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.052	J	1	0.037		0.28	mg/Kg	06/19/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/15/2018 12:00:00 AM
Project:	LB96143	Date Received:	6/12/2018 12:00:00 AM
Client Sample ID:	SB-54-COMP	SDG No.:	LB96143
Lab Sample ID:	J3573-06	Matrix:	Solid
Level (low/med):	low	% Solid:	86.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.13	J	1	0.037		0.28	mg/Kg	06/19/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2018 12:00:00 AM
Project:	LB96143	Date Received:	6/12/2018 12:00:00 AM
Client Sample ID:	SB-45-COMP	SDG No.:	LB96143
Lab Sample ID:	J3573-07	Matrix:	Solid
Level (low/med):	low	% Solid:	66.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	J	1	0.049		0.37	mg/Kg	06/19/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/15/2018 12:00:00 AM
Project:	LB96143	Date Received:	6/11/2018 12:00:00 AM
Client Sample ID:	SB-52-COMP	SDG No.:	LB96143
Lab Sample ID:	J3573-18	Matrix:	Solid
Level (low/med):	low	% Solid:	88.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.039	J	1	0.036		0.27	mg/Kg	06/19/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/11/2018 12:00:00 AM
Project:	LB96143	Date Received:	6/11/2018 12:00:00 AM
Client Sample ID:	SB-53-COMP	SDG No.:	LB96143
Lab Sample ID:	J3573-19	Matrix:	Solid
Level (low/med):	low	% Solid:	93.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.026	U	1	0.034		0.26	mg/Kg	06/19/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/18/2018 12:00:00 AM
Project:	LB96143	Date Received:	6/18/2018 12:00:00 AM
Client Sample ID:	TP-12-S	SDG No.:	LB96143
Lab Sample ID:	J3584-03	Matrix:	Solid
Level (low/med):	low	% Solid:	91.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.035		0.26	mg/Kg	06/19/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/18/2018 12:00:00 AM
Project:	LB96143	Date Received:	6/18/2018 12:00:00 AM
Client Sample ID:	TP-12-D	SDG No.:	LB96143
Lab Sample ID:	J3584-07	Matrix:	Solid
Level (low/med):	low	% Solid:	90.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.06	J	1	0.035		0.26	mg/Kg	06/19/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/18/2018 12:00:00 AM
Project:	LB96143	Date Received:	6/18/2018 12:00:00 AM
Client Sample ID:	TP-3	SDG No.:	LB96143
Lab Sample ID:	J3584-11	Matrix:	Solid
Level (low/med):	low	% Solid:	88.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.073	J	1	0.037		0.28	mg/Kg	06/19/2018	06/20/2018	9012B

Report of Analysis

Client:		Date Collected:	6/18/2018 12:00:00 AM
Project:	LB96143	Date Received:	6/18/2018 12:00:00 AM
Client Sample ID:	TP-2-S	SDG No.:	LB96143
Lab Sample ID:	J3584-15	Matrix:	Solid
Level (low/med):	low	% Solid:	92.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.084	J	1	0.035		0.27	mg/Kg	06/19/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/18/2018 12:00:00 AM
Project:	LB96143	Date Received:	6/18/2018 12:00:00 AM
Client Sample ID:	TP-1-S	SDG No.:	LB96143
Lab Sample ID:	J3584-19	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	0.017	U	1	0.035		0.27	mg/Kg	06/19/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/18/2018 12:00:00 AM
Project:	LB96143	Date Received:	6/18/2018 12:00:00 AM
Client Sample ID:	TP-1-D	SDG No.:	LB96143
Lab Sample ID:	J3584-23	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	0.05	J	1	0.036		0.27	mg/Kg	06/19/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB96143	Date Received:	
Client Sample ID:	LOWPB110395	SDG No.:	LB96143
Lab Sample ID:	LOWPB110395	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:	LB96143	Date Received:	
Client Sample ID:	LOWPB110395	SDG No.:	LB96143
Lab Sample ID:	LOWPB110395	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: LB96143

SDG No.: LB96143

Contract: _____ Lab Code: CHEM

Case No.: LB96143

SAS No.: LB96143

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	09:19	lb96143
CCV2	Cyanide	0.24	0.25	96		90 - 110		06/20/2018	09:26	lb96143
CCV3	Cyanide	0.24	0.25	96		90 - 110		06/20/2018	09:34	lb96143
CCV4	Cyanide	0.24	0.25	96		90 - 110		06/20/2018	09:41	lb96143
CCV5	Cyanide	0.26	0.25	104		90 - 110		06/20/2018	09:57	lb96143



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96143

SDG No.: LB96143

Contract:

Lab Code: CHEM

Case No.: LB96143

SAS No.: LB96143

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00066	+/-0.005	U		0.005		06/20/2018	09:19	1b96143



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96143

SDG No.: LB96143

Contract:

Lab Code: CHEM

Case No.: LB96143

SAS No.: LB96143

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00034	+/-0.005	U		0.005		06/20/2018	09:19	lb96143
CCB2	Cyanide	0.00076	+/-0.005	U		0.005		06/20/2018	09:26	lb96143
CCB3	Cyanide	0.00066	+/-0.005	U		0.005		06/20/2018	09:34	lb96143
CCB4	Cyanide	0.00064	+/-0.005	U		0.005		06/20/2018	09:41	lb96143
CCB5	Cyanide	-0.00064	+/-0.005	U		0.005		06/20/2018	09:57	lb96143



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96143

SDG No.: LB96143

Contract: Lab Code: CHEM

Case No.: LB96143

SAS No.: LB96143

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: LB96143

SDG No.: LB96143

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
PB110395BL	Cyanide	SOLID		Batch Number:		PB110395		Prep Date:	06/19/2018	
		-0.011	<0.25	U		0.25		06/20/2018	09:19	lb96143
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB110404BL	Cyanide	SOLID		Batch Number:		PB110404		Prep Date:	06/19/2018	
		-0.0024	<0.25	U		0.25		06/20/2018	09:34	lb96143

GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB96143 level: low sdg no.: LB96143
contract: lab code: CHEM case no.: LB96143 sas no.: LB96143
matrix: Solid sample id: J3498-03 client id: TP-G-SMS
Percent Solids for Sample: 86.6 Spiked ID: J3498-03MS Percent Solids for Spike Sample: 86.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.069	J	2.3	80		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB96143 level: low sdg no.: LB96143
contract: lab code: CHEM case no.: LB96143 sas no.: LB96143
matrix: Solid sample id: J3498-03 client id: TP-G-SMSD
Percent Solids for Sample: 86.6 Spiked ID: J3498-03MSD Percent Solids for Spike Sample: 86.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.069	J	2.3	80		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB96143 level: low sdg no.: LB96143
contract: lab code: CHEM case no.: LB96143 sas no.: LB96143
matrix: Solid sample id: J3570-01 client id: 20180371-COMPOSITE-CS-1AMS
Percent Solids for Sample: 65.1 Spiked ID: J3570-01MS Percent Solids for Spike Sample: 65.1

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.4		0.15	J	3	42	*	

GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB96143 level: low sdg no.: LB96143
contract: lab code: CHEM case no.: LB96143 sas no.: LB96143
matrix: Solid sample id: J3570-01 client id: 20180371-COMPOSITE-CS-1AMSD
Percent Solids for Sample: 65.1 Spiked ID: J3570-01MSD Percent Solids for Spike Sample: 65.1

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.4		0.15	J	3	42	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB96143 **Level:** LOW **SDG No.:** LB96143
Contract: **Lab Code:** CHEM **Case No.:** LB96143 **SAS No.:** LB96143
Matrix: Solid **Sample ID:** J3498-03 **Client ID:** TP-G-SDUP
Percent Solids for Sample: 86.6 **Duplicate ID** J3498-03DUP **Percent Solids for Spike Sample:** 86.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.069	J	0.086	J	22	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB96143 **Level:** LOW **SDG No.:** LB96143
Contract: **Lab Code:** CHEM **Case No.:** LB96143 **SAS No.:** LB96143
Matrix: Solid **Sample ID:** J3498-03MS **Client ID:** TP-G-SMSD
Percent Solids for Sample: 86.6 **Duplicate ID** J3498-03MSD **Percent Solids for Spike Sample:** 86.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.9		1.9		0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB96143 **Level:** LOW **SDG No.:** LB96143
Contract: _____ **Lab Code:** CHEM **Case No.:** LB96143 **SAS No.:** LB96143
Matrix: Solid **Sample ID:** J3570-01 **Client ID:** 20180371-COMPOSITE-CS-1ADUP
Percent Solids for Sample: 65.1 **Duplicate ID** J3570-01DUP **Percent Solids for Spike Sample:** 65.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.15	J	0.12	J	22	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB96143 **Level:** LOW **SDG No.:** LB96143
Contract: **Lab Code:** CHEM **Case No.:** LB96143 **SAS No.:** LB96143
Matrix: Solid **Sample ID:** J3570-01MS **Client ID:** 20180371-COMPOSITE-CS-1AMSD
Percent Solids for Sample: 65.1 **Duplicate ID** J3570-01MSD **Percent Solids for Spike Sample:** 65.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.4		1.4		0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB96143

SDG No.: LB96143

Contract:

Lab Code: CHEM

Case No.: LB96143

SAS No.: LB96143

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB110395BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB96143

SDG No.: LB96143

Contract:

Lab Code: CHEM

Case No.: LB96143

SAS No.: LB96143

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB110404BS Cyanide	mg/Kg	5	4.9		98	85 - 115	