

Daily Analysis Runlog For Sequence/QC Batch ID # LB93645

Review By

Review On

SubDirectory

LB93645

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP62413,WP62414,WP62415,WP62416,WP62417,WP62418,WP62419				
ICV Standard		W1542				
CCV Standard		WP62420				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62422,WP59958,WP60878				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/02/18 11:38		OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/02/18 11:38		OK
3	10PPBCN	10PPBCN	CAL3	03/02/18 11:38		OK
4	50PPBCN	50PPBCN	CAL4	03/02/18 11:38		OK
5	100PPBCN	100PPBCN	CAL5	03/02/18 11:38		OK
6	250PPBCN	250PPBCN	CAL6	03/02/18 11:38		OK
7	500PPBCN	500PPBCN	CAL7	03/02/18 11:38		OK
8	ICV1	ICV1	ICV	03/02/18 12:13		OK
9	ICB1	ICB1	ICB	03/02/18 12:13		OK
10	CCV1	CCV1	CCV	03/02/18 12:13		OK
11	CCB1	CCB1	CCB	03/02/18 12:13		OK
12	PB106994BL	PB106994BL	MB	03/02/18 12:13		OK
13	PB106994BS	PB106994BS	LCS	03/02/18 12:13		OK
14	LOWPB106994	LOWPB106994	SAM	03/02/18 12:13		OK
15	HIGHPB106994	HIGHPB106994	SAM	03/02/18 12:13		OK
16	J1721-01	SP-48	SAM	03/02/18 12:13		OK
17	J1721-01DUP	SP-48DUP	DUP	03/02/18 12:13		OK
18	J1721-01MS	SP-48MS	MS	03/02/18 12:13		OK
19	J1721-01MSD	SP-48MSD	MSD	03/02/18 12:21		OK
20	J1721-03	SP-28	SAM	03/02/18 12:21		OK
21	J1721-05	SP-35	SAM	03/02/18 12:21		OK

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ICV Standard	W1542
CCV Standard	WP62420
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP58910
Chk Standard	WP62422,WP59958,WP60878

#	Sample	Standard	Method	Time	Result	Status
22	CCV2	CCV2	CCV	03/02/18 12:21		OK
23	CCB2	CCB2	CCB	03/02/18 12:21		OK
24	J1721-07	SP-41	SAM	03/02/18 12:21		OK
25	J1721-09	SP-47	SAM	03/02/18 12:21		OK
26	J1721-11	SP-50	SAM	03/02/18 12:21		OK
27	J1721-13	SP-46	SAM	03/02/18 12:21		OK
28	J1721-15	SP-40	SAM	03/02/18 12:21		OK
29	J1721-19	SP-27	SAM	03/02/18 12:24		OK
30	J1721-17	SP-34	SAM	03/02/18 12:45		OK
31	CCV3	CCV3	CCV	03/02/18 12:45		OK
32	CCB3	CCB3	CCB	03/02/18 12:45		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB93645	Date Received:	
Client Sample ID:	HIGHPB106994	SDG No.:	LB93645
Lab Sample ID:	HIGHPB106994	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		03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93645	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	SP-48	SDG No.:	LB93645
Lab Sample ID:	J1721-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.037		0.28	mg/Kg	03/01/2018	03/02/2018	9012B

Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93645	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	SP-28	SDG No.:	LB93645
Lab Sample ID:	J1721-03	Matrix:	Solid
Level (low/med):	low	% Solid:	89.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.22	J	1	0.037		0.28	mg/Kg	03/01/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93645	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	SP-35	SDG No.:	LB93645
Lab Sample ID:	J1721-05	Matrix:	Solid
Level (low/med):	low	% Solid:	90.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.13	J	1	0.036		0.27	mg/Kg	03/01/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93645	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	SP-41	SDG No.:	LB93645
Lab Sample ID:	J1721-07	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	0.22	J	1	0.035		0.27	mg/Kg	03/01/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93645	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	SP-47	SDG No.:	LB93645
Lab Sample ID:	J1721-09	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	0.24	J	1	0.036		0.27	mg/Kg	03/01/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93645	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	SP-50	SDG No.:	LB93645
Lab Sample ID:	J1721-11	Matrix:	Solid
Level (low/med):	low	% Solid:	87.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.15	J	1	0.036		0.27	mg/Kg	03/01/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93645	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	SP-46	SDG No.:	LB93645
Lab Sample ID:	J1721-13	Matrix:	Solid
Level (low/med):	low	% Solid:	92.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.2	J	1	0.035		0.27	mg/Kg	03/01/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93645	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	SP-40	SDG No.:	LB93645
Lab Sample ID:	J1721-15	Matrix:	Solid
Level (low/med):	low	% Solid:	90.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.38		1	0.036		0.27	mg/Kg	03/01/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93645	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	SP-34	SDG No.:	LB93645
Lab Sample ID:	J1721-17	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	0.18	J	1	0.035		0.27	mg/Kg	03/01/2018	03/02/2018	9012B

Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93645	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	SP-27	SDG No.:	LB93645
Lab Sample ID:	J1721-19	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	0.091	J	1	0.034		0.26	mg/Kg	03/01/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93645	Date Received:	
Client Sample ID:	LOWPB106994	SDG No.:	LB93645
Lab Sample ID:	LOWPB106994	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	0.0092		1	0.003		0.005	mg/L		03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93645	Date Received:	
Client Sample ID:	LOWPB106994	SDG No.:	LB93645
Lab Sample ID:	LOWPB106994	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: LB93645

SDG No.: LB93645

Contract: _____

Lab Code: CHEM

Case No.: LB93645

SAS No.: LB93645

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		03/02/2018	12:13	LB93645



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93645

SDG No.: LB93645

Contract: _____ Lab Code: CHEM

Case No.: LB93645

SAS No.: LB93645

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		03/02/2018	12:13	LB93645
CCV2	Cyanide	0.24	0.25	96		90 - 110		03/02/2018	12:21	LB93645
CCV3	Cyanide	0.27	0.25	108		90 - 110		03/02/2018	12:45	LB93645



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93645

SDG No.: LB93645

Contract:

Lab Code: CHEM

Case No.: LB93645

SAS No.: LB93645

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0	+/-0.005	U		0.005		03/02/2018	12:13	LB93645

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00018	+/-0.005	U		0.005		03/02/2018	12:13	LB93645
CCB2	Cyanide	-0.0001	+/-0.005	U		0.005		03/02/2018	12:21	LB93645
CCB3	Cyanide	-0.00014	+/-0.005	U		0.005		03/02/2018	12:45	LB93645



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93645

SDG No.: LB93645

Contract:

Lab Code: CHEM

Case No.: LB93645

SAS No.: LB93645

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: LB93645

SDG No.: LB93645

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
PB106994BL		SOLID		Batch Number:		PB106994		Prep Date:	03/01/2018	
	Cyanide	-0.021	<0.24	U		0.24		03/02/2018	12:13	LB93645



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93645 level: low sdg no.: LB93645
contract: lab code: CHEM case no.: LB93645 sas no.: LB93645
matrix: Solid sample id: J1721-01 client id: SP-48MS
Percent Solids for Sample: 88.2 Spiked ID: J1721-01MS Percent Solids for Spike Sample: 88.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.16	J	2.2	88		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93645 level: low sdg no.: LB93645
contract: lab code: CHEM case no.: LB93645 sas no.: LB93645
matrix: Solid sample id: J1721-01 client id: SP-48MSD
Percent Solids for Sample: 88.2 Spiked ID: J1721-01MSD Percent Solids for Spike Sample: 88.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.16	J	2.2	88		

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DUPLICATE SAMPLE SUMMARY

Client: LB93645 **Level:** LOW **SDG No.:** LB93645
Contract: **Lab Code:** CHEM **Case No.:** LB93645 **SAS No.:** LB93645
Matrix: Solid **Sample ID:** J1721-01 **Client ID:** SP-48DUP
Percent Solids for Sample: 88.2 **Duplicate ID** J1721-01DUP **Percent Solids for Spike Sample:** 88.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.16	J	0.14	J	13		

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DUPLICATE SAMPLE SUMMARY

Client: LB93645 **Level:** LOW **SDG No.:** LB93645
Contract: **Lab Code:** CHEM **Case No.:** LB93645 **SAS No.:** LB93645
Matrix: Solid **Sample ID:** J1721-01MS **Client ID:** SP-48MSD
Percent Solids for Sample: 88.2 **Duplicate ID** J1721-01MSD **Percent Solids for Spike Sample:** 88.2

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



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93645

SDG No.: LB93645

Contract:

Lab Code: CHEM

Case No.: LB93645

SAS No.: LB93645

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106994BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	