

Daily Analysis Runlog For Sequence/QC Batch ID # LB91454

Review By

Review On

SubDirectory

LB91454

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP59472,WP59473,WP59474,WP59475,WP59476,WP59477,WP59478				
ICV Standard		W1541				
CCV Standard		WP59479				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59481				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/08/17 09:55		OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/08/17 09:55		OK
3	10PPBCN	10PPBCN	CAL3	11/08/17 09:55		OK
4	50PPBCN	50PPBCN	CAL4	11/08/17 09:55		OK
5	100PPBCN	100PPBCN	CAL5	11/08/17 09:55		OK
6	250PPBCN	250PPBCN	CAL6	11/08/17 09:55		OK
7	500PPBCN	500PPBCN	CAL7	11/08/17 09:55		OK
8	ICV1	ICV1	ICV	11/08/17 14:34		OK
9	ICB1	ICB1	ICB	11/08/17 14:34		OK
10	CCV1	CCV1	CCV	11/08/17 14:34		OK
11	CCB1	CCB1	CCB	11/08/17 14:34		OK
12	PB104093BL	PB104093BL	MB	11/08/17 14:34		OK
13	PB104093BS	PB104093BS	LCS	11/08/17 14:34		OK
14	LOWPB104093	LOWPB104093	SAM	11/08/17 14:34		OK
15	HIGHPB104093	HIGHPB104093	SAM	11/08/17 14:42		OK
16	I6304-09	CL-02-110717	SAM	11/08/17 14:42		OK
17	I6304-09DUP	CL-02-110717DUP	DUP	11/08/17 14:42		OK
18	I6304-09MS	CL-02-110717MS	MS	11/08/17 14:42		OK
19	I6304-09MSD	CL-02-110717MSD	MSD	11/08/17 14:42		OK
20	I6310-01	1-5-RO	SAM	11/08/17 14:42		OK
21	I6374-01	FK-PS-01-020	SAM	11/08/17 14:42		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB91454

Review By		Review On				
SubDirectory		LB91454		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59472,WP59473,WP59474,WP59475,WP59476,WP59477,WP59478				
ICV Standard		W1541				
CCV Standard		WP59479				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59481				
22	CCV2	CCV2	CCV	11/08/17 14:42		OK
23	CCB2	CCB2	CCB	11/08/17 14:42		OK
24	I6377-01	FK-PS-01-021	SAM	11/08/17 14:42		OK
25	I6379-01	TP-1-(2-8)	SAM	11/08/17 14:42		OK
26	I6379-04	TP-2-(1-4)	SAM	11/08/17 14:49		OK
27	I6379-07	TP-3-(1-4)	SAM	11/08/17 14:49		OK
28	I6381-01	RT-4651	SAM	11/08/17 14:49		OK
29	I6381-03	RT-1500	SAM	11/08/17 14:49		OK
30	DOC-1	DOC-1	LCS	11/08/17 14:49		OK
31	DOC-2	DOC-2	LCS	11/08/17 14:49		OK
32	DOC-3	DOC-3	LCS	11/08/17 14:49		OK
33	DOC-4	DOC-4	LCS	11/08/17 14:49		OK
34	CCV3	CCV3	CCV	11/08/17 14:49		OK
35	CCB3	CCB3	CCB	11/08/17 14:49		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB91454	Date Received:	
Client Sample ID:	HIGHPB104093	SDG No.:	LB91454
Lab Sample ID:	HIGHPB104093	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	0.47		1	0.003		0.005	mg/L		11/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/7/2017 12:00:00 AM
Project:	LB91454	Date Received:	11/7/2017 12:00:00 AM
Client Sample ID:	CL-02-110717	SDG No.:	LB91454
Lab Sample ID:	I6304-09	Matrix:	Solid
Level (low/med):	low	% Solid:	92

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.024	U	1	0.035		0.26	mg/Kg	11/08/2017	11/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/7/2017 12:00:00 AM
Project:	LB91454	Date Received:	11/7/2017 12:00:00 AM
Client Sample ID:	1-5-RO	SDG No.:	LB91454
Lab Sample ID:	I6310-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.062	U	1	0.036		0.27	mg/Kg	11/08/2017	11/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/7/2017 12:00:00 AM
Project:	LB91454	Date Received:	11/7/2017 12:00:00 AM
Client Sample ID:	FK-PS-01-020	SDG No.:	LB91454
Lab Sample ID:	I6374-01	Matrix:	Solid
Level (low/med):	low	% Solid:	91.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.07	U	1	0.034		0.26	mg/Kg	11/08/2017	11/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/7/2017 12:00:00 AM
Project:	LB91454	Date Received:	11/7/2017 12:00:00 AM
Client Sample ID:	FK-PS-01-021	SDG No.:	LB91454
Lab Sample ID:	I6377-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.07	U	1	0.034		0.26	mg/Kg	11/08/2017	11/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/7/2017 12:00:00 AM
Project:	LB91454	Date Received:	11/7/2017 12:00:00 AM
Client Sample ID:	TP-1-(2-8)	SDG No.:	LB91454
Lab Sample ID:	I6379-01	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	-0.0088	U	1	0.035		0.27	mg/Kg	11/08/2017	11/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/7/2017 12:00:00 AM
Project:	LB91454	Date Received:	11/7/2017 12:00:00 AM
Client Sample ID:	TP-2-(1-4)	SDG No.:	LB91454
Lab Sample ID:	I6379-04	Matrix:	Solid
Level (low/med):	low	% Solid:	87

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.016	U	1	0.036		0.27	mg/Kg	11/08/2017	11/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/7/2017 12:00:00 AM
Project:	LB91454	Date Received:	11/7/2017 12:00:00 AM
Client Sample ID:	TP-3-(1-4)	SDG No.:	LB91454
Lab Sample ID:	I6379-07	Matrix:	Solid
Level (low/med):	low	% Solid:	82.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	1	1	0.039		0.29		mg/Kg	11/08/2017	11/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/7/2017 12:00:00 AM
Project:	LB91454	Date Received:	11/7/2017 12:00:00 AM
Client Sample ID:	RT-4651	SDG No.:	LB91454
Lab Sample ID:	I6381-01	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	0.14	J	1	0.036		0.27	mg/Kg	11/08/2017	11/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/7/2017 12:00:00 AM
Project:	LB91454	Date Received:	11/7/2017 12:00:00 AM
Client Sample ID:	RT-1500	SDG No.:	LB91454
Lab Sample ID:	I6381-03	Matrix:	Solid
Level (low/med):	low	% Solid:	49.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.098	U	1	0.064		0.48	mg/Kg	11/08/2017	11/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB91454	Date Received:	
Client Sample ID:	LOWPB104093	SDG No.:	LB91454
Lab Sample ID:	LOWPB104093	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	0.0078		1	0.003		0.005	mg/L		11/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB91454	Date Received:	
Client Sample ID:	LOWPB104093	SDG No.:	LB91454
Lab Sample ID:	LOWPB104093	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: LB91454

SDG No.: LB91454

Contract: _____ Lab Code: CHEM

Case No.: LB91454

SAS No.: LB91454

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		11/08/2017	14:34	LB91454
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		11/08/2017	14:42	LB91454
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		11/08/2017	14:49	LB91454



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91454 **SDG No.:** LB91454
Contract: **Lab Code:** CHEM **Case No.:** LB91454 **SAS No.:** LB91454

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.0015	+/-0.005	U		0.005		11/08/2017	14:34	LB91454

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.0012	+/-0.005	U		0.005		11/08/2017	14:34	LB91454
CCB2	Cyanide	-0.0016	+/-0.005	U		0.005		11/08/2017	14:42	LB91454
CCB3	Cyanide	-0.001	+/-0.005	U		0.005		11/08/2017	14:49	LB91454



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91454

SDG No.: LB91454

Contract: Lab Code: CHEM

Case No.: LB91454

SAS No.: LB91454

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: LB91454

SDG No.: LB91454

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
PB104093BL		SOLID		Batch Number:		PB104093		Prep Date:	11/08/2017	
	Cyanide	-0.077	<0.24	U		0.24		11/08/2017	14:34	LB91454



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91454 level: low sdg no.: LB91454
contract: lab code: CHEM case no.: LB91454 sas no.: LB91454
matrix: Solid sample id: I6304-09 client id: CL-02-110717MS
Percent Solids for Sample: 92 Spiked ID: I6304-09MS Percent Solids for Spike Sample: 92

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.4		0.035	U	2.1	114.3		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91454 level: low sdg no.: LB91454
contract: lab code: CHEM case no.: LB91454 sas no.: LB91454
matrix: Solid sample id: I6304-09 client id: CL-02-110717MSD
Percent Solids for Sample: 92 Spiked ID: I6304-09MSD Percent Solids for Spike Sample: 92

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.3		0.035	U	2.1	109.5		

GENCHEM**- 6 -****DUPLICATE SAMPLE SUMMARY**

Client: LB91454 **Level:** LOW **SDG No.:** LB91454
Contract: **Lab Code:** CHEM **Case No.:** LB91454 **SAS No.:** LB91454
Matrix: Solid **Sample ID:** I6304-09 **Client ID:** CL-02-110717DUP
Percent Solids for Sample: 92 **Duplicate ID** I6304-09DUP **Percent Solids for Spike Sample:** 92

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.035	U	-0.032	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91454 Level: LOW SDG No.: LB91454
Contract: _____ Lab Code: CHEM Case No.: LB91454 SAS No.: LB91454
Matrix: Solid Sample ID: I6304-09MS Client ID: CL-02-110717MSD
Percent Solids for Sample: 92 Duplicate ID I6304-09MSD Percent Solids for Spike Sample: 92

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.4		2.3		4		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91454

SDG No.: LB91454

Contract:

Lab Code: CHEM

Case No.: LB91454

SAS No.: LB91454

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC-1 Cyanide	mg/L	0.1	0.1		100	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91454

SDG No.: LB91454

Contract:

Lab Code: CHEM

Case No.: LB91454

SAS No.: LB91454

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC-2 Cyanide	mg/L	0.1	0.094		94	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91454

SDG No.: LB91454

Contract:

Lab Code: CHEM

Case No.: LB91454

SAS No.: LB91454

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC-3 Cyanide	mg/L	0.1	0.1		100	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91454

SDG No.: LB91454

Contract:

Lab Code: CHEM

Case No.: LB91454

SAS No.: LB91454

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC-4 Cyanide	mg/L	0.1	0.096		96	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91454

SDG No.: LB91454

Contract:

Lab Code: CHEM

Case No.: LB91454

SAS No.: LB91454

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104093BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	