

Daily Analysis Runlog For Sequence/QC Batch ID # LB94945

Review By		Review On				
SubDirectory		LB94945		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64034,WP64035,WP64036,WP64037,WP64038,WP64039,WP64040				
ICV Standard		W1542				
CCV Standard		WP64041				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64043,WP59958,WP60878				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	04/27/18 11:23		OK
2	5.0PPBCN	5.0PPBCN	CAL2	04/27/18 11:24		OK
3	10PPBCN	10PPBCN	CAL3	04/27/18 11:24		OK
4	50PPBCN	50PPBCN	CAL4	04/27/18 11:24		OK
5	100PPBCN	100PPBCN	CAL5	04/27/18 11:24		OK
6	250PPBCN	250PPBCN	CAL6	04/27/18 11:24		OK
7	500PPBCN	500PPBCN	CAL7	04/27/18 11:24		OK
8	ICV1	ICV1	ICV	04/27/18 13:42		OK
9	ICB1	ICB1	ICB	04/27/18 13:42		OK
10	CCV1	CCV1	CCV	04/27/18 13:42		OK
11	CCB1	CCB1	CCB	04/27/18 13:42		OK
12	PB108689BL	PB108689BL	MB	04/27/18 13:42		OK
13	PB108689BS	PB108689BS	LCS	04/27/18 13:42		OK
14	LOWPB108689	LOWPB108689	SAM	04/27/18 13:42		OK
15	HIGHPB108689	HIGHPB108689	SAM	04/27/18 13:42		OK
16	J2564-06	LS-UB-102	SAM	04/27/18 13:42		OK
17	J2564-06DUP	LS-UB-102DUP	DUP	04/27/18 13:42		OK
18	J2564-06MS	LS-UB-102MS	MS	04/27/18 13:42		OK
19	J2564-06MSD	LS-UB-102MSD	MSD	04/27/18 13:49		OK
20	PB108687BL	PB108687BL	MB	04/27/18 13:49		OK
21	PB108687BS	PB108687BS	LCS	04/27/18 13:49		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB94945

Review By			Review On			
SubDirectory		LB94945		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64034,WP64035,WP64036,WP64037,WP64038,WP64039,WP64040				
ICV Standard		W1542				
CCV Standard		WP64041				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64043,WP59958,WP60878				
22	CCV2	CCV2	CCV	04/27/18 13:49		OK
23	CCB2	CCB2	CCB	04/27/18 13:49		OK
24	J2597-01	KS-RO-133	SAM	04/27/18 13:49		OK
25	J2597-01DUP	KS-RO-133DUP	DUP	04/27/18 13:49		OK
26	J2597-01MS	KS-RO-133MS	MS	04/27/18 13:49		OK
27	J2597-01MSD	KS-RO-133MSD	MSD	04/27/18 13:49		OK
28	J2607-01	NJD001-74	SAM	04/27/18 13:49		OK
29	J2608-01	CO-5-1	SAM	04/27/18 13:49		OK
30	J2609-01	SB-01A	SAM	04/27/18 13:57		OK
31	J2609-02	SB-01B	SAM	04/27/18 13:57		OK
32	J2609-03	SB-01C	SAM	04/27/18 13:57		OK
33	J2609-04	SB-01D	SAM	04/27/18 13:57		OK
34	CCV3	CCV3	CCV	04/27/18 13:57		OK
35	CCB3	CCB3	CCB	04/27/18 13:57		OK
36	J2609-05	SB-01E	SAM	04/27/18 13:57		OK
37	J2613-01	FK-GF-02-018-A	SAM	04/27/18 13:57		OK
38	J2613-03	FK-GF-02-018-B	SAM	04/27/18 13:57		OK
39	CCV4	CCV4	CCV	04/27/18 13:57		OK
40	CCB4	CCB4	CCB	04/27/18 13:57		OK



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	
Project:	LB94945	Date Received:	
Client Sample ID:	HIGHPB108689	SDG No.:	LB94945
Lab Sample ID:	HIGHPB108689	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		04/27/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	4/26/2018 12:00:00 AM
Project:	LB94945	Date Received:	4/26/2018 12:00:00 AM
Client Sample ID:	LS-UB-102	SDG No.:	LB94945
Lab Sample ID:	J2564-06	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	0.019		1	0.003		0.005	mg/L	04/27/2018	04/27/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	4/26/2018 12:00:00 AM
Project:	LB94945	Date Received:	4/26/2018 12:00:00 AM
Client Sample ID:	KS-RO-133	SDG No.:	LB94945
Lab Sample ID:	J2597-01	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	-0.031	U	1	0.037		0.28	mg/Kg	04/27/2018	04/27/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	4/24/2018 12:00:00 AM
Project:	LB94945	Date Received:	4/26/2018 12:00:00 AM
Client Sample ID:	NJD001-74	SDG No.:	LB94945
Lab Sample ID:	J2607-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.054	J	1	0.035		0.27	mg/Kg	04/27/2018	04/27/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	4/26/2018 12:00:00 AM
Project:	LB94945	Date Received:	4/26/2018 12:00:00 AM
Client Sample ID:	CO-5-1	SDG No.:	LB94945
Lab Sample ID:	J2608-01	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0091	U	1	0.032		0.24	mg/Kg	04/27/2018	04/27/2018	9012B

Report of Analysis

Client:		Date Collected:	4/26/2018 12:00:00 AM
Project:	LB94945	Date Received:	4/26/2018 12:00:00 AM
Client Sample ID:	SB-01A	SDG No.:	LB94945
Lab Sample ID:	J2609-01	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	0.47		1	0.035		0.27	mg/Kg	04/27/2018	04/27/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	4/26/2018 12:00:00 AM
Project:	LB94945	Date Received:	4/26/2018 12:00:00 AM
Client Sample ID:	SB-01B	SDG No.:	LB94945
Lab Sample ID:	J2609-02	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	0.031	U	1	0.034		0.26	mg/Kg	04/27/2018	04/27/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	4/26/2018 12:00:00 AM
Project:	LB94945	Date Received:	4/26/2018 12:00:00 AM
Client Sample ID:	SB-01C	SDG No.:	LB94945
Lab Sample ID:	J2609-03	Matrix:	Solid
Level (low/med):	low	% Solid:	75.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.47		1	0.043		0.33	mg/Kg	04/27/2018	04/27/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	4/26/2018 12:00:00 AM
Project:	LB94945	Date Received:	4/26/2018 12:00:00 AM
Client Sample ID:	SB-01D	SDG No.:	LB94945
Lab Sample ID:	J2609-04	Matrix:	Solid
Level (low/med):	low	% Solid:	78.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.24	J	1	0.039		0.3	mg/Kg	04/27/2018	04/27/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	4/26/2018 12:00:00 AM
Project:	LB94945	Date Received:	4/26/2018 12:00:00 AM
Client Sample ID:	SB-01E	SDG No.:	LB94945
Lab Sample ID:	J2609-05	Matrix:	Solid
Level (low/med):	low	% Solid:	79.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.014	U	1	0.04		0.3	mg/Kg	04/27/2018	04/27/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	4/26/2018 12:00:00 AM
Project:	LB94945	Date Received:	4/26/2018 12:00:00 AM
Client Sample ID:	FK-GF-02-018-A	SDG No.:	LB94945
Lab Sample ID:	J2613-01	Matrix:	Solid
Level (low/med):	low	% Solid:	91.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.025	U	1	0.034		0.26	mg/Kg	04/27/2018	04/27/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	4/26/2018 12:00:00 AM
Project:	LB94945	Date Received:	4/26/2018 12:00:00 AM
Client Sample ID:	FK-GF-02-018-B	SDG No.:	LB94945
Lab Sample ID:	J2613-03	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	0.033	U	1	0.035		0.26	mg/Kg	04/27/2018	04/27/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	
Project:	LB94945	Date Received:	
Client Sample ID:	LOWPB108689	SDG No.:	LB94945
Lab Sample ID:	LOWPB108689	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	0.0099		1	0.003		0.005	mg/L		04/27/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	
Project:	LB94945	Date Received:	
Client Sample ID:	LOWPB108689	SDG No.:	LB94945
Lab Sample ID:	LOWPB108689	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
-----	-----------	-------	------	----	-----	-----	------------	-------	-----------	-----------	----------

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: LB94945

SDG No.: LB94945

Contract: _____

Lab Code: CHEM

Case No.: LB94945

SAS No.: LB94945

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	0.094	0.099	94.9		85 - 115		04/27/2018	13:42	lb94945



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94945

SDG No.: LB94945

Contract: _____ Lab Code: CHEM

Case No.: LB94945

SAS No.: LB94945

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		04/27/2018	13:42	lb94945
CCV2	Cyanide	0.25	0.25	100		90 - 110		04/27/2018	13:49	lb94945
CCV3	Cyanide	0.25	0.25	100		90 - 110		04/27/2018	13:57	lb94945
CCV4	Cyanide	0.25	0.25	100		90 - 110		04/27/2018	13:57	lb94945



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94945

SDG No.: LB94945

Contract:

Lab Code: CHEM

Case No.: LB94945

SAS No.: LB94945

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.0018	+/-0.005	U		0.005		04/27/2018	13:42	lb94945



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94945

SDG No.: LB94945

Contract:

Lab Code: CHEM

Case No.: LB94945

SAS No.: LB94945

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.0001	+/-0.005	U		0.005		04/27/2018	13:42	1b94945
CCB2	Cyanide	-0.0001	+/-0.005	U		0.005		04/27/2018	13:49	1b94945
CCB3	Cyanide	-0.00053	+/-0.005	U		0.005		04/27/2018	13:57	1b94945
CCB4	Cyanide	0	+/-0.005	U		0.005		04/27/2018	13:57	1b94945



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94945

SDG No.: LB94945

Contract: Lab Code: CHEM

Case No.: LB94945

SAS No.: LB94945

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
-----------	---------	----------------	---------------------	--------------	-----	------	---	------------------	------------------	---------------



GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB94945

SDG No.: LB94945

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
PB108687BL	Cyanide	SOLID		Batch Number:		PB108687		Prep Date:	04/27/2018	
		-0.021	<0.25	U		0.25		04/27/2018	13:49	lb94945
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB108689BL	Cyanide	WATER		Batch Number:		PB108689		Prep Date:	04/27/2018	
		0.0001	<0.005	U		0.005		04/27/2018	13:42	lb94945



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB94945 level: low sdg no.: LB94945
contract: lab code: CHEM case no.: LB94945 sas no.: LB94945
matrix: WATER sample id: J2564-06 client id: LS-UB-102MS
Percent Solids for Sample: 0 Spiked ID: J2564-06MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.058		0.019		0.04	98		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB94945 level: low sdg no.: LB94945
contract: lab code: CHEM case no.: LB94945 sas no.: LB94945
matrix: WATER sample id: J2564-06 client id: LS-UB-102MSD
Percent Solids for Sample: 0 Spiked ID: J2564-06MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.057		0.019		0.04	95		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB94945 level: low sdg no.: LB94945
contract: lab code: CHEM case no.: LB94945 sas no.: LB94945
matrix: Solid sample id: J2597-01 client id: KS-RO-133MS
Percent Solids for Sample: 88.1 Spiked ID: J2597-01MS Percent Solids for Spike Sample: 88.1

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1		0.037	U	2.2	45.5	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB94945 level: low sdg no.: LB94945
contract: lab code: CHEM case no.: LB94945 sas no.: LB94945
matrix: Solid sample id: J2597-01 client id: KS-RO-133MSD
Percent Solids for Sample: 88.1 Spiked ID: J2597-01MSD Percent Solids for Spike Sample: 88.1

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125		1	0.037	U	2.2	45.5	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB94945 **Level:** LOW **SDG No.:** LB94945
Contract: **Lab Code:** CHEM **Case No.:** LB94945 **SAS No.:** LB94945
Matrix: WATER **Sample ID:** J2564-06 **Client ID:** LS-UB-102DUP
Percent Solids for Sample: 0 **Duplicate ID** J2564-06DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.019		0.02		5		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB94945 **Level:** LOW **SDG No.:** LB94945
Contract: **Lab Code:** CHEM **Case No.:** LB94945 **SAS No.:** LB94945
Matrix: WATER **Sample ID:** J2564-06MS **Client ID:** LS-UB-102MSD
Percent Solids for Sample: 0 **Duplicate ID** J2564-06MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.058		0.057		2		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB94945 **Level:** LOW **SDG No.:** LB94945
Contract: _____ **Lab Code:** CHEM **Case No.:** LB94945 **SAS No.:** LB94945
Matrix: Solid **Sample ID:** J2597-01 **Client ID:** KS-RO-133DUP
Percent Solids for Sample: 88.1 **Duplicate ID** J2597-01DUP **Percent Solids for Spike Sample:** 88.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.037	U	-0.014	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB94945 **Level:** LOW **SDG No.:** LB94945
Contract: **Lab Code:** CHEM **Case No.:** LB94945 **SAS No.:** LB94945
Matrix: Solid **Sample ID:** J2597-01MS **Client ID:** KS-RO-133MSD
Percent Solids for Sample: 88.1 **Duplicate ID** J2597-01MSD **Percent Solids for Spike Sample:** 88.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1		1		0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94945

SDG No.: LB94945

Contract:

Lab Code: CHEM

Case No.: LB94945

SAS No.: LB94945

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB108687BS Cyanide	mg/Kg	5	4.8		96	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94945

SDG No.: LB94945

Contract:

Lab Code: CHEM

Case No.: LB94945

SAS No.: LB94945

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB108689BS Cyanide	mg/L	0.1	0.097		97	85 - 115	