

Daily Analysis Runlog For Sequence/QC Batch ID # LB90698

Review By		Review On				
SubDirectory		LB90698		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58658,WP58659,WP58660,WP58661,WP58662,WP58663,WP58665				
ICV Standard		wp58665				
CCV Standard		wp58664				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58666,WP55355,WP55836				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	10/10/17 09:25		OK
2	5.0PPBCN	5.0PPBCN	CAL2	10/10/17 09:25		OK
3	10PPBCN	10PPBCN	CAL3	10/10/17 09:25		OK
4	50PPBCN	50PPBCN	CAL4	10/10/17 09:25		OK
5	100PPBCN	100PPBCN	CAL5	10/10/17 09:25		OK
6	250PPBCN	250PPBCN	CAL6	10/10/17 09:25		OK
7	500PPBCN	500PPBCN	CAL7	10/10/17 09:25		OK
8	ICV1	ICV1	ICV	10/10/17 12:07		OK
9	ICB1	ICB1	ICB	10/10/17 12:07		OK
10	CCV1	CCV1	CCV	10/10/17 12:07		OK
11	CCB1	CCB1	CCB	10/10/17 12:07		OK
12	PB103080BL	PB103080BL	MB	10/10/17 12:07		OK
13	PB103080BS	PB103080BS	LCS	10/10/17 12:07		OK
14	LOWPB103080	LOWPB103080	SAM	10/10/17 12:14		OK
15	HIGHPB103080	HIGHPB103080	SAM	10/10/17 12:14		OK
16	I5745-01	HR-06-100617-A	SAM	10/10/17 12:14		OK
17	I5745-01DUP	HR-06-100617-ADUP	DUP	10/10/17 12:14		OK
18	I5745-01MS	HR-06-100617-AMS	MS	10/10/17 12:14		OK
19	I5745-01MSD	HR-06-100617-AMSD	MSD	10/10/17 12:15		OK
20	I5745-04	HR-06-100617-B	SAM	10/10/17 12:15		OK
21	I5745-07	HR-06-100617-C	SAM	10/10/17 12:15		OK

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Daily Analysis Runlog For Sequence/QC Batch ID # LB90698

Review By		Review On				
SubDirectory LB90698		Test : Cyanide				
STD. NAME	STD REF.#					
ICAL Standard	WP58658,WP58659,WP58660,WP58661,WP58662,WP58663,WP58666					
ICV Standard	wp58665					
CCV Standard	wp58664					
ICSA Standard	N/A					
CRI Standard	N/A					
LCS Standard	N/A					
Chk Standard	WP58666,WP55355,WP55836					

22	CCV2	CCV2	CCV	10/10/17 12:21		OK
23	CCB2	CCB2	CCB	10/10/17 12:21		OK
24	I5748-01	CL-01-100617-A	SAM	10/10/17 12:21		OK
25	I5748-04	CL-01-100617-B	SAM	10/10/17 12:21		OK
26	I5748-07	CL-01-100617-C	SAM	10/10/17 12:21		OK
27	I5749-01	SP-COMP	SAM	10/10/17 12:21		OK
28	CCV3	CCV3	CCV	10/10/17 12:21		OK
29	CCB3	CCB3	CCB	10/10/17 12:21		OK



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

Report of Analysis

Client:		Date Collected:	
Project:	LB90698	Date Received:	
Client Sample ID:	HIGHPB103080	SDG No.:	LB90698
Lab Sample ID:	HIGHPB103080	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	0.48		1	0.003		0.005	mg/L		10/10/2017	9012B



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

Report of Analysis

Client:		Date Collected:	10/6/2017 12:00:00 AM
Project:	LB90698	Date Received:	10/6/2017 12:00:00 AM
Client Sample ID:	HR-06-100617-A	SDG No.:	LB90698
Lab Sample ID:	I5745-01	Matrix:	Solid
Level (low/med):	low	% Solid:	96.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.033		0.25	mg/Kg	10/09/2017	10/10/2017	9012B



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

Report of Analysis

Client:		Date Collected:	10/6/2017 12:00:00 AM
Project:	LB90698	Date Received:	10/6/2017 12:00:00 AM
Client Sample ID:	HR-06-100617-B	SDG No.:	LB90698
Lab Sample ID:	I5745-04	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	0.33		1	0.034		0.26	mg/Kg	10/09/2017	10/10/2017	9012B



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

Report of Analysis

Client:		Date Collected:	10/6/2017 12:00:00 AM
Project:	LB90698	Date Received:	10/6/2017 12:00:00 AM
Client Sample ID:	HR-06-100617-C	SDG No.:	LB90698
Lab Sample ID:	I5745-07	Matrix:	Solid
Level (low/med):	low	% Solid:	93.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.024	U	1	0.034		0.25	mg/Kg	10/09/2017	10/10/2017	9012B



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

Report of Analysis

Client:		Date Collected:	10/6/2017 12:00:00 AM
Project:	LB90698	Date Received:	10/6/2017 12:00:00 AM
Client Sample ID:	CL-01-100617-A	SDG No.:	LB90698
Lab Sample ID:	I5748-01	Matrix:	Solid
Level (low/med):	low	% Solid:	91.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.003	U	1	0.035		0.26	mg/Kg	10/09/2017	10/10/2017	9012B



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

Report of Analysis

Client:		Date Collected:	10/6/2017 12:00:00 AM
Project:	LB90698	Date Received:	10/6/2017 12:00:00 AM
Client Sample ID:	CL-01-100617-B	SDG No.:	LB90698
Lab Sample ID:	I5748-04	Matrix:	Solid
Level (low/med):	low	% Solid:	94.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0095	U	1	0.033		0.25	mg/Kg	10/09/2017	10/10/2017	9012B



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

Report of Analysis

Client:		Date Collected:	10/6/2017 12:00:00 AM
Project:	LB90698	Date Received:	10/6/2017 12:00:00 AM
Client Sample ID:	CL-01-100617-C	SDG No.:	LB90698
Lab Sample ID:	I5748-07	Matrix:	Solid
Level (low/med):	low	% Solid:	94.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.018	U	1	0.034		0.25	mg/Kg	10/09/2017	10/10/2017	9012B



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

Report of Analysis

Client:		Date Collected:	10/6/2017 12:00:00 AM
Project:	LB90698	Date Received:	10/6/2017 12:00:00 AM
Client Sample ID:	SP-COMP	SDG No.:	LB90698
Lab Sample ID:	I5749-01	Matrix:	Solid
Level (low/med):	low	% Solid:	94.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0073	U	1	0.034		0.26	mg/Kg	10/09/2017	10/10/2017	9012B



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

Report of Analysis

Client:		Date Collected:	
Project:	LB90698	Date Received:	
Client Sample ID:	LOWPB103080	SDG No.:	LB90698
Lab Sample ID:	LOWPB103080	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	0.011		1	0.003		0.005	mg/L		10/10/2017	9012B



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

Report of Analysis

Client:		Date Collected:	
Project:	LB90698	Date Received:	
Client Sample ID:	LOWPB103080	SDG No.:	LB90698
Lab Sample ID:	LOWPB103080	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: LB90698

SDG No.: LB90698

Contract: _____ Lab Code: CHEM

Case No.: LB90698

SAS No.: LB90698

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		10/10/2017	12:07	LB90698
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		10/10/2017	12:21	LB90698
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		10/10/2017	12:21	LB90698



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90698 **SDG No.:** LB90698
Contract: **Lab Code:** CHEM **Case No.:** LB90698 **SAS No.:** LB90698

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00099	+/-0.005	U		0.005		10/10/2017	12:07	LB90698



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90698

SDG No.: LB90698

Contract:

Lab Code: CHEM

Case No.: LB90698

SAS No.: LB90698

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.0015	+/-0.005	U		0.005		10/10/2017	12:07	LB90698
CCB2	Cyanide	0.0012	+/-0.005	U		0.005		10/10/2017	12:21	LB90698
CCB3	Cyanide	0.0018	+/-0.005	U		0.005		10/10/2017	12:21	LB90698



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90698

SDG No.: LB90698

Contract: Lab Code: CHEM

Case No.: LB90698

SAS No.: LB90698

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: LB90698

SDG No.: LB90698

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
PB103080BL	Cyanide	SOLID 0.029	<0.25	Batch Number: U		PB103080 0.25		Prep Date: 10/10/2017	10/09/2017 12:07	LB90698



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90698 level: low sdg no.: LB90698
contract: lab code: CHEM case no.: LB90698 sas no.: LB90698
matrix: Solid sample id: I5745-01 client id: HR-06-100617-AMS
Percent Solids for Sample: 96.5 Spiked ID: I5745-01MS Percent Solids for Spike Sample: 96.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.12	J	2	89		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90698 level: low sdg no.: LB90698
contract: lab code: CHEM case no.: LB90698 sas no.: LB90698
matrix: Solid sample id: I5745-01 client id: HR-06-100617-AMSD
Percent Solids for Sample: 96.5 Spiked ID: I5745-01MSD Percent Solids for Spike Sample: 96.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.12	J	2	89		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90698 **Level:** LOW **SDG No.:** LB90698
Contract: **Lab Code:** CHEM **Case No.:** LB90698 **SAS No.:** LB90698
Matrix: Solid **Sample ID:** I5745-01 **Client ID:** HR-06-100617-ADUP
Percent Solids for Sample: 96.5 **Duplicate ID** I5745-01DUP **Percent Solids for Spike Sample:** 96.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.12	J	0.067	J	57	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90698 **Level:** LOW **SDG No.:** LB90698
Contract: **Lab Code:** CHEM **Case No.:** LB90698 **SAS No.:** LB90698
Matrix: Solid **Sample ID:** I5745-01MS **Client ID:** HR-06-100617-AMSD
Percent Solids for Sample: 96.5 **Duplicate ID** I5745-01MSD **Percent Solids for Spike Sample:** 96.5

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



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90698

SDG No.: LB90698

Contract:

Lab Code: CHEM

Case No.: LB90698

SAS No.: LB90698

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB103080BS Cyanide	mg/Kg	4.8	4.7		97.9	85 - 115	