

Daily Analysis Runlog For Sequence/QC Batch ID # LB90247

Review By

Review On

SubDirectory

LB90247

Test :

Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP58170,WP58171,WP58172,WP58173,WP58174,WP58175,WP58168
ICV Standard	WP58176
CCV Standard	WP58178
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP58177,WP55355,WP55836

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	09/22/17 09:13		OK
2	5.0PPBCN	5.0PPBCN	CAL2	09/22/17 09:13		OK
3	10PPBCN	10PPBCN	CAL3	09/22/17 09:13		OK
4	50PPBCN	50PPBCN	CAL4	09/22/17 09:13		OK
5	100PPBCN	100PPBCN	CAL5	09/22/17 09:13		OK
6	250PPBCN	250PPBCN	CAL6	09/22/17 09:13		OK
7	500PPBCN	500PPBCN	CAL7	09/22/17 09:13		OK
8	ICV1	ICV1	ICV	09/22/17 10:00		OK
9	ICB1	ICB1	ICB	09/22/17 10:00		OK
10	CCV1	CCV1	CCV	09/22/17 10:00		OK
11	CCB1	CCB1	CCB	09/22/17 10:00		OK
12	PB102516BL	PB102516BL	MB	09/22/17 10:00		OK
13	I5333-02	SV-30745L	SAM	09/22/17 10:00		OK
14	I5333-02DUP	SV-30745LDUP	DUP	09/22/17 10:07		OK
15	I5339-02	FRAC-TANK-573094	SAM	09/22/17 10:07		OK
16	PB102515BL	PB102515BL	MB	09/22/17 10:07		OK
17	I5309-04	TP-1-4-COMP	SAM	09/22/17 10:07		OK
18	I5309-04DUP	TP-1-4-COMPDUP	DUP	09/22/17 10:07		OK
19	I5309-08	TP-5-COMP	SAM	09/22/17 10:07		OK
20	I5329-03	CL-01092017-COMP	SAM	09/22/17 10:07		OK
21	I5330-03	HD-01092017-COMP	SAM	09/22/17 10:07		OK

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

Daily Analysis Runlog For Sequence/QC Batch ID # LB90247

Review By		Review On				
SubDirectory		LB90247		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58170,WP58171,WP58172,WP58173,WP58174,WP58175,WP58168				
ICV Standard		WP58176				
CCV Standard		WP58178				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58177,WP55355,WP55836				
22	CCV2	CCV2	CCV	09/22/17 10:07		OK
23	CCB2	CCB2	CCB	09/22/17 10:07		OK
24	I5331-06	HR-05-92017-B	SAM	09/22/17 10:12		OK
25	I5331-09	HR-05-92017-C	SAM	09/22/17 10:12		OK
26	I5335-02	SP-COMP	SAM	09/22/17 10:12		OK
27	I5336-03	TR-05-092017	SAM	09/22/17 10:12		OK
28	I5331-03	HR-05-92017-A	SAM	09/22/17 10:21		OK
29	CCV3	CCV3	CCV	09/22/17 10:23		OK
30	CCB3	CCB3	CCB	09/22/17 10:23		OK



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

Report of Analysis

Client:		Date Collected:	9/19/2017 12:00:00 AM
Project:	LB90247	Date Received:	9/19/2017 12:00:00 AM
Client Sample ID:	TP-1-4-COMP	SDG No.:	LB90247
Lab Sample ID:	I5309-04	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.
	Reactive Cyanide	-0.016	U	1	0.025		0.05	mg/Kg	09/21/2017	09/22/2017	9012B



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

Report of Analysis

Client:		Date Collected:	9/19/2017 12:00:00 AM
Project:	LB90247	Date Received:	9/19/2017 12:00:00 AM
Client Sample ID:	TP-5-COMP	SDG No.:	LB90247
Lab Sample ID:	I5309-08	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.
	Reactive Cyanide	-0.015	U	1	0.025		0.05	mg/Kg	09/21/2017	09/22/2017	9012B



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

Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90247	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	CL-01092017-COMP	SDG No.:	LB90247
Lab Sample ID:	I5329-03	Matrix:	Solid
Level (low/med):	low	% Solid:	94.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.016	U	1	0.025		0.05	mg/Kg	09/21/2017	09/22/2017	9012B



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

Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90247	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	HD-01092017-COMP	SDG No.:	LB90247
Lab Sample ID:	I5330-03	Matrix:	Solid
Level (low/med):	low	% Solid:	91.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.01	U	1	0.025		0.05	mg/Kg	09/21/2017	09/22/2017	9012B



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

Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90247	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	HR-05-92017-A	SDG No.:	LB90247
Lab Sample ID:	I5331-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.017	U	1	0.025		0.05	mg/Kg	09/21/2017	09/22/2017	9012B



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

Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90247	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	HR-05-92017-B	SDG No.:	LB90247
Lab Sample ID:	I5331-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.013	U	1	0.025		0.05	mg/Kg	09/21/2017	09/22/2017	9012B



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

Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90247	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	HR-05-92017-C	SDG No.:	LB90247
Lab Sample ID:	I5331-09	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.016	U	1	0.025		0.05	mg/Kg	09/21/2017	09/22/2017	9012B



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

Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90247	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	SV-30745L	SDG No.:	LB90247
Lab Sample ID:	I5333-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0017	U	1	0.0025		0.005	mg/L	09/21/2017	09/22/2017	9012B



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

Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90247	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	SP-COMP	SDG No.:	LB90247
Lab Sample ID:	I5335-02	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.016	U	1	0.025		0.049	mg/Kg	09/21/2017	09/22/2017	9012B



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

Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90247	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	TR-05-092017	SDG No.:	LB90247
Lab Sample ID:	I5336-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0096	U	1	0.025		0.05	mg/Kg	09/21/2017	09/22/2017	9012B



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

Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90247	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	FRAC-TANK-573094	SDG No.:	LB90247
Lab Sample ID:	I5339-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0016	U	1	0.0025		0.005	mg/L	09/21/2017	09/22/2017	9012B



Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90247	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	FRAC-TANK-573094	SDG No.:	LB90247
Lab Sample ID:	I5339-02	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: LB90247

SDG No.: LB90247

Contract: _____ Lab Code: CHEM

Case No.: LB90247

SAS No.: LB90247

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	Reactive Cyanide	0.25	0.25	100	0	90 - 110		09/22/2017	10:00	LB90247
CCV2	Reactive Cyanide	0.25	0.25	100	0	90 - 110		09/22/2017	10:07	LB90247
CCV3	Reactive Cyanide	0.25	0.25	100	0	90 - 110		09/22/2017	10:23	LB90247



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90247

SDG No.: LB90247

Contract:

Lab Code: CHEM

Case No.: LB90247

SAS No.: LB90247

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00023	+/-0.005	U		0.005		09/22/2017	10:00	LB90247

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00073	+/-0.005	U		0.005		09/22/2017	10:00	LB90247
CCB2	Reactive Cyanide	0	+/-0.005	U		0.005		09/22/2017	10:07	LB90247
CCB3	Reactive Cyanide	0.00093	+/-0.005	U		0.005		09/22/2017	10:23	LB90247



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90247

SDG No.: LB90247

Contract: Lab Code: CHEM

Case No.: LB90247

SAS No.: LB90247

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: LB90247

SDG No.: LB90247

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
PB102515BL	Reactive Cyanide	SOLID		Batch Number:		PB102515		Prep Date:	09/21/2017	
		0.004	<0.05	U		0.05		09/22/2017	10:07	LB90247
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB102516BL	Reactive Cyanide	WATER		Batch Number:		PB102516		Prep Date:	09/21/2017	
		0	<0.005	U		0.005		09/22/2017	10:00	LB90247

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90247 **Level:** LOW **SDG No.:** LB90247
Contract: **Lab Code:** CHEM **Case No.:** LB90247 **SAS No.:** LB90247
Matrix: Solid **Sample ID:** I5309-04 **Client ID:** TP-1-4-COMPDUP
Percent Solids for Sample: 89.5 **Duplicate ID** I5309-04DUP **Percent Solids for Spike Sample:** 89.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	-0.01	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90247 **Level:** LOW **SDG No.:** LB90247
Contract: **Lab Code:** CHEM **Case No.:** LB90247 **SAS No.:** LB90247
Matrix: WATER **Sample ID:** I5333-02 **Client ID:** SV-30745LDUP
Percent Solids for Sample: 0 **Duplicate ID** I5333-02DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/L	20	0.0025	U	-0.0012	U			