

Daily Analysis Runlog For Sequence/QC Batch ID # LB90527

Review By

Review On

SubDirectory

LB90527

Test :

Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP58478,WP58479,WP58480,WP58481,WP58482,WP58483,WP58476
ICV Standard	wp58485
CCV Standard	wp58484
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP58486,WP55355,WP55836

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	10/03/17 09:59		OK
2	5.0PPBCN	5.0PPBCN	CAL2	10/03/17 09:59		OK
3	10PPBCN	10PPBCN	CAL3	10/03/17 09:59		OK
4	50PPBCN	50PPBCN	CAL4	10/03/17 09:59		OK
5	100PPBCN	100PPBCN	CAL5	10/03/17 09:59		OK
6	250PPBCN	250PPBCN	CAL6	10/03/17 09:59		OK
7	500PPBCN	500PPBCN	CAL7	10/03/17 09:59		OK
8	ICV1	ICV1	ICV	10/03/17 16:25		OK
9	ICB1	ICB1	ICB	10/03/17 16:25		OK
10	CCV1	CCV1	CCV	10/03/17 16:26		OK
11	CCB1	CCB1	CCB	10/03/17 16:26		OK
12	PB102877BL	PB102877BL	MB	10/03/17 16:26		OK
13	I5585-21	G67-0-1	SAM	10/03/17 16:26		OK
14	I5585-21DUP	G67-0-1DUP	DUP	10/03/17 16:33		OK
15	I5585-22	G67-1-2	SAM	10/03/17 16:33		OK
16	I5585-23	G68-0-1.5	SAM	10/03/17 16:33		OK
17	I5585-24	G68-1.5-3	SAM	10/03/17 16:33		OK
18	I5585-25	G69-0-1.5	SAM	10/03/17 16:33		OK
19	I5585-26	G69-1.5-3	SAM	10/03/17 16:33		OK
20	I5585-27	G70-0-2.5	SAM	10/03/17 16:33		OK
21	I5585-28	G70-2.5-5	SAM	10/03/17 16:33		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB90527

Review By		Review On				
SubDirectory		LB90527		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58478,WP58479,WP58480,WP58481,WP58482,WP58483,WP58476				
ICV Standard		wp58485				
CCV Standard		wp58484				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58486,WP55355,WP55836				
22	CCV2	CCV2	CCV	10/03/17 16:33		OK
23	CCB2	CCB2	CCB	10/03/17 16:33		OK
24	I5585-29	G71-0-1.5	SAM	10/03/17 16:33		OK
25	I5585-30	G71-1.5-3	SAM	10/03/17 16:41		OK
26	I5587-09	G28A-0-2	SAM	10/03/17 16:41		OK
27	I5587-10	G28A-2-4	SAM	10/03/17 16:41		OK
28	I5587-11	G10-0-1.5	SAM	10/03/17 16:41		OK
29	I5587-12	G10-1.5-3	SAM	10/03/17 16:41		OK
30	I5610-25	1A-(1-2)-COMP-(0-5)	SAM	10/03/17 16:41		OK
31	I5610-26	1B-(1-2)-COMP-(0-5)	SAM	10/03/17 16:41		OK
32	I5610-27	2A-(1-2)-COMP-(0-5)	SAM	10/03/17 16:41		OK
33	I5610-28	2B-(1-2)-COMP-(0-5)	SAM	10/03/17 16:41		OK
34	CCV3	CCV3	CCV	10/03/17 16:41		OK
35	CCB3	CCB3	CCB	10/03/17 16:41		OK



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90527	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G67-0-1	SDG No.:	LB90527
Lab Sample ID:	I5585-21	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	0.00044	U	1	0.025		0.05	mg/Kg	10/03/2017	10/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90527	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G67-1-2	SDG No.:	LB90527
Lab Sample ID:	I5585-22	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	-0.0024	U	1	0.025		0.05	mg/Kg	10/03/2017	10/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90527	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G68-0-1.5	SDG No.:	LB90527
Lab Sample ID:	I5585-23	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	0.0019	U	1	0.025		0.05	mg/Kg	10/03/2017	10/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90527	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G68-1.5-3	SDG No.:	LB90527
Lab Sample ID:	I5585-24	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	0.00022	U	1	0.025		0.05	mg/Kg	10/03/2017	10/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90527	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G69-0-1.5	SDG No.:	LB90527
Lab Sample ID:	I5585-25	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	0.0018	U	1	0.025		0.049	mg/Kg	10/03/2017	10/03/2017	9012B

Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90527	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G69-1.5-3	SDG No.:	LB90527
Lab Sample ID:	I5585-26	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	0.0036	U	1	0.025		0.05	mg/Kg	10/03/2017	10/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90527	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G70-0-2.5	SDG No.:	LB90527
Lab Sample ID:	I5585-27	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	-0.00019	U	1	0.025		0.05	mg/Kg	10/03/2017	10/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90527	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G70-2.5-5	SDG No.:	LB90527
Lab Sample ID:	I5585-28	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	0.00078	U	1	0.025		0.05	mg/Kg	10/03/2017	10/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90527	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G71-0-1.5	SDG No.:	LB90527
Lab Sample ID:	I5585-29	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	0.0014	U	1	0.025		0.05	mg/Kg	10/03/2017	10/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90527	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G71-1.5-3	SDG No.:	LB90527
Lab Sample ID:	I5585-30	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	0.0029	U	1	0.025		0.05	mg/Kg	10/03/2017	10/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90527	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G28A-0-2	SDG No.:	LB90527
Lab Sample ID:	I5587-09	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	0.0011	U	1	0.025		0.05	mg/Kg	10/03/2017	10/03/2017	9012B

Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90527	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G28A-2-4	SDG No.:	LB90527
Lab Sample ID:	I5587-10	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	0.0013	U	1	0.025		0.05	mg/Kg	10/03/2017	10/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90527	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G10-0-1.5	SDG No.:	LB90527
Lab Sample ID:	I5587-11	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	0.0027	U	1	0.025		0.05	mg/Kg	10/03/2017	10/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90527	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G10-1.5-3	SDG No.:	LB90527
Lab Sample ID:	I5587-12	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	0.0015	U	1	0.025		0.05	mg/Kg	10/03/2017	10/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/2/2017 12:00:00 AM
Project:	LB90527	Date Received:	10/2/2017 12:00:00 AM
Client Sample ID:	1A-(1-2)-COMP-(0-5)	SDG No.:	LB90527
Lab Sample ID:	I5610-25	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	-0.0011	U	1	0.025		0.05	mg/Kg	10/03/2017	10/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/2/2017 12:00:00 AM
Project:	LB90527	Date Received:	10/2/2017 12:00:00 AM
Client Sample ID:	1B-(1-2)-COMP-(0-5)	SDG No.:	LB90527
Lab Sample ID:	I5610-26	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	0.0004	U	1	0.025		0.049	mg/Kg	10/03/2017	10/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/2/2017 12:00:00 AM
Project:	LB90527	Date Received:	10/2/2017 12:00:00 AM
Client Sample ID:	2A-(1-2)-COMP-(0-5)	SDG No.:	LB90527
Lab Sample ID:	I5610-27	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	0.0016	U	1	0.025		0.05	mg/Kg	10/03/2017	10/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/2/2017 12:00:00 AM
Project:	LB90527	Date Received:	10/2/2017 12:00:00 AM
Client Sample ID:	2B-(1-2)-COMP-(0-5)	SDG No.:	LB90527
Lab Sample ID:	I5610-28	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	0.0054	U	1	0.025		0.05	mg/Kg	10/03/2017	10/03/2017	9012B



Report of Analysis

Client:		Date Collected:	10/2/2017 12:00:00 AM
Project:	LB90527	Date Received:	10/2/2017 12:00:00 AM
Client Sample ID:	2B-(1-2)-COMP-(0-5)	SDG No.:	LB90527
Lab Sample ID:	I5610-28	Matrix:	Solid
Level (low/med):	low	% Solid:	100

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: LB90527

SDG No.: LB90527

Contract: _____ Lab Code: CHEM

Case No.: LB90527

SAS No.: LB90527

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
ICV1	Reactive Cyanide	0.095	0.099	96	0	85 - 115		10/03/2017	16:25	lb90527



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90527

SDG No.: LB90527

Contract: _____ Lab Code: CHEM

Case No.: LB90527

SAS No.: LB90527

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	0.24	0.25	96	0	90 - 110		10/03/2017	16:26	lb90527
CCV2	Reactive Cyanide	0.24	0.25	96	0	90 - 110		10/03/2017	16:33	lb90527
CCV3	Reactive Cyanide	0.24	0.25	96	0	90 - 110		10/03/2017	16:41	lb90527



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90527

SDG No.: LB90527

Contract:

Lab Code: CHEM

Case No.: LB90527

SAS No.: LB90527

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.0001	+/-0.005	U		0.005		10/03/2017	16:25	lb90527



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90527

SDG No.: LB90527

Contract:

Lab Code: CHEM

Case No.: LB90527

SAS No.: LB90527

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.0012	+/-0.005	U		0.005		10/03/2017	16:26	1b90527
CCB2	Reactive Cyanide	0.0017	+/-0.005	U		0.005		10/03/2017	16:33	1b90527
CCB3	Reactive Cyanide	0.0011	+/-0.005	U		0.005		10/03/2017	16:41	1b90527



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90527

SDG No.: LB90527

Contract: Lab Code: CHEM

Case No.: LB90527

SAS No.: LB90527

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: LB90527

SDG No.: LB90527

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
PB102877BL		SOLID		Batch Number:		PB102877		Prep Date:	10/03/2017	
	Reactive Cyanide	0.0088	<0.05	U		0.05		10/03/2017	16:26	lb90527

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90527 **Level:** LOW **SDG No.:** LB90527
Contract: **Lab Code:** CHEM **Case No.:** LB90527 **SAS No.:** LB90527
Matrix: Solid **Sample ID:** I5585-21 **Client ID:** G67-0-1DUP
Percent Solids for Sample: 100 **Duplicate ID** I5585-21DUP **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	0.0049	U			