

Daily Analysis Runlog For Sequence/QC Batch ID # LB90573

Review By		Review On				
SubDirectory		LB90573		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58539,WP58540,WP58541,WP58543,WP58544,WP58537,WP58542				
ICV Standard		WP58546				
CCV Standard		WP58545				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55355,WP55836,WP58547				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	10/04/17 14:13		OK
2	5.0PPBCN	5.0PPBCN	CAL2	10/04/17 14:13		OK
3	10PPBCN	10PPBCN	CAL3	10/04/17 14:13		OK
4	50PPBCN	50PPBCN	CAL4	10/04/17 14:13		OK
5	100PPBCN	100PPBCN	CAL5	10/04/17 14:13		OK
6	250PPBCN	250PPBCN	CAL6	10/04/17 14:13		OK
7	500PPBCN	500PPBCN	CAL7	10/04/17 14:13		OK
8	ICV1	ICV1	ICV	10/04/17 15:29		OK
9	ICB1	ICB1	ICB	10/04/17 15:29		OK
10	CCV1	CCV1	CCV	10/04/17 15:29		OK
11	CCB1	CCB1	CCB	10/04/17 15:29		OK
12	PB102905BL	PB102905BL	MB	10/04/17 15:29		OK
13	I5586-21	G72-0-1	SAM	10/04/17 15:29		OK
14	I5586-21DUP	G72-0-1DUP	DUP	10/04/17 15:36		OK
15	I5586-22	G72-1-2	SAM	10/04/17 15:36		OK
16	I5586-23	G47A-0-2.5	SAM	10/04/17 15:36		OK
17	I5586-24	G47A-2.5-5	SAM	10/04/17 15:36		OK
18	I5586-25	G54A-0-3.5	SAM	10/04/17 15:36		OK
19	I5586-26	G54A-3.5-7	SAM	10/04/17 15:36		OK
20	I5586-27	G54B-0-3	SAM	10/04/17 15:36		OK
21	I5586-28	G54B-3-6	SAM	10/04/17 15:36		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB90573

Review By		Review On				
SubDirectory		LB90573		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58539,WP58540,WP58541,WP58543,WP58544,WP58537,WP58542				
ICV Standard		WP58546				
CCV Standard		WP58545				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55355,WP55836,WP58547				
22	CCV2	CCV2	CCV	10/04/17 15:36		OK
23	CCB2	CCB2	CCB	10/04/17 15:36		OK
24	I5586-29	G56A-0-3	SAM	10/04/17 15:36		OK
25	I5586-30	G56A-3-6	SAM	10/04/17 15:44		OK
26	I5604-03	SP-A-100217	SAM	10/04/17 15:44		OK
27	I5604-06	SP-B-100217	SAM	10/04/17 15:44		OK
28	I5616-04	STONE-SP-A-COMP	SAM	10/04/17 15:44		OK
29	I5616-08	STONE-SP-B-COMP	SAM	10/04/17 15:44		OK
30	I5637-03	B-18(0-10)COMP	SAM	10/04/17 15:44		OK
31	I5644-04	TP-9-COMP	SAM	10/04/17 15:44		OK
32	I5644-08	TP-10-11-COMP	SAM	10/04/17 15:44		OK
33	I5644-12	TP-12-13-COMP	SAM	10/04/17 15:44		OK
34	CCV3	CCV3	CCV	10/04/17 15:44		OK
35	CCB3	CCB3	CCB	10/04/17 15:44		OK
36	I5644-16	TP-14-COMP	SAM	10/04/17 15:48		OK
37	I5647-03	OK-02-100317	SAM	10/04/17 15:48		OK
38	CCV4	CCV4	CCV	10/04/17 15:48		OK
39	CCB4	CCB4	CCB	10/04/17 15:48		OK



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90573	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G72-0-1	SDG No.:	LB90573
Lab Sample ID:	I5586-21	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	-0.0038	U	1	0.025		0.05	mg/Kg	10/04/2017	10/04/2017	9012B

Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90573	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G72-1-2	SDG No.:	LB90573
Lab Sample ID:	I5586-22	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	-0.0011	U	1	0.025		0.05	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90573	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G47A-0-2.5	SDG No.:	LB90573
Lab Sample ID:	I5586-23	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	-0.0031	U	1	0.025		0.05	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90573	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G47A-2.5-5	SDG No.:	LB90573
Lab Sample ID:	I5586-24	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	-0.0038	U	1	0.025		0.05	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90573	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G54A-0-3.5	SDG No.:	LB90573
Lab Sample ID:	I5586-25	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	-0.0039	U	1	0.025		0.05	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90573	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G54A-3.5-7	SDG No.:	LB90573
Lab Sample ID:	I5586-26	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	-0.0031	U	1	0.025		0.05	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90573	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G54B-0-3	SDG No.:	LB90573
Lab Sample ID:	I5586-27	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	-0.00056	U	1	0.025		0.05	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90573	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G54B-3-6	SDG No.:	LB90573
Lab Sample ID:	I5586-28	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	-0.0044	U	1	0.025		0.05	mg/Kg	10/04/2017	10/04/2017	9012B

Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90573	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G56A-0-3	SDG No.:	LB90573
Lab Sample ID:	I5586-29	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	-0.0032	U	1	0.025		0.05	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/29/2017 12:00:00 AM
Project:	LB90573	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	G56A-3-6	SDG No.:	LB90573
Lab Sample ID:	I5586-30	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	0.0018	U	1	0.025		0.05	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/2/2017 12:00:00 AM
Project:	LB90573	Date Received:	10/2/2017 12:00:00 AM
Client Sample ID:	SP-A-100217	SDG No.:	LB90573
Lab Sample ID:	I5604-03	Matrix:	Solid
Level (low/med):	low	% Solid:	96.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0035	U	1	0.025		0.05	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/2/2017 12:00:00 AM
Project:	LB90573	Date Received:	10/2/2017 12:00:00 AM
Client Sample ID:	SP-B-100217	SDG No.:	LB90573
Lab Sample ID:	I5604-06	Matrix:	Solid
Level (low/med):	low	% Solid:	92.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0037	U	1	0.025		0.05	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/3/2017 12:00:00 AM
Project:	LB90573	Date Received:	10/3/2017 12:00:00 AM
Client Sample ID:	STONE-SP-A-COMP	SDG No.:	LB90573
Lab Sample ID:	I5616-04	Matrix:	Solid
Level (low/med):	low	% Solid:	95.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.002	U	1	0.025		0.05	mg/Kg	10/04/2017	10/04/2017	9012B

Report of Analysis

Client:		Date Collected:	10/3/2017 12:00:00 AM
Project:	LB90573	Date Received:	10/3/2017 12:00:00 AM
Client Sample ID:	STONE-SP-B-COMP	SDG No.:	LB90573
Lab Sample ID:	I5616-08	Matrix:	Solid
Level (low/med):	low	% Solid:	95.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0029	U	1	0.025		0.049	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/2/2017 12:00:00 AM
Project:	LB90573	Date Received:	10/3/2017 12:00:00 AM
Client Sample ID:	B-18(0-10)COMP	SDG No.:	LB90573
Lab Sample ID:	I5637-03	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	-0.0016	U	1	0.025		0.05	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/3/2017 12:00:00 AM
Project:	LB90573	Date Received:	10/3/2017 12:00:00 AM
Client Sample ID:	TP-9-COMP	SDG No.:	LB90573
Lab Sample ID:	I5644-04	Matrix:	Solid
Level (low/med):	low	% Solid:	83.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.004	U	1	0.025		0.05	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/3/2017 12:00:00 AM
Project:	LB90573	Date Received:	10/3/2017 12:00:00 AM
Client Sample ID:	TP-10-11-COMP	SDG No.:	LB90573
Lab Sample ID:	I5644-08	Matrix:	Solid
Level (low/med):	low	% Solid:	83.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0023	U	1	0.025		0.049	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/3/2017 12:00:00 AM
Project:	LB90573	Date Received:	10/3/2017 12:00:00 AM
Client Sample ID:	TP-12-13-COMP	SDG No.:	LB90573
Lab Sample ID:	I5644-12	Matrix:	Solid
Level (low/med):	low	% Solid:	87.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00015	U	1	0.025		0.049	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/3/2017 12:00:00 AM
Project:	LB90573	Date Received:	10/3/2017 12:00:00 AM
Client Sample ID:	TP-14-COMP	SDG No.:	LB90573
Lab Sample ID:	I5644-16	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	-0.0038	U	1	0.025		0.05	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/3/2017 12:00:00 AM
Project:	LB90573	Date Received:	10/3/2017 12:00:00 AM
Client Sample ID:	OK-02-100317	SDG No.:	LB90573
Lab Sample ID:	I5647-03	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.
	Reactive Cyanide	-0.00046	U	1	0.025		0.049	mg/Kg	10/04/2017	10/04/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/3/2017 12:00:00 AM
Project:	LB90573	Date Received:	10/3/2017 12:00:00 AM
Client Sample ID:	OK-02-100317	SDG No.:	LB90573
Lab Sample ID:	I5647-03	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.
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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: LB90573

SDG No.: LB90573

Contract: _____ Lab Code: CHEM

Case No.: LB90573

SAS No.: LB90573

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	0.097	0.099	98	0	85 - 115		10/04/2017	15:29	LB90573



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90573

SDG No.: LB90573

Contract: _____ Lab Code: CHEM

Case No.: LB90573

SAS No.: LB90573

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		10/04/2017	15:29	LB90573
CCV2	Reactive Cyanide	0.25	0.25	100	0	90 - 110		10/04/2017	15:36	LB90573
CCV3	Reactive Cyanide	0.24	0.25	96	0	90 - 110		10/04/2017	15:44	LB90573
CCV4	Reactive Cyanide	0.26	0.25	104	0	90 - 110		10/04/2017	15:48	LB90573



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90573

SDG No.: LB90573

Contract:

Lab Code: CHEM

Case No.: LB90573

SAS No.: LB90573

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00021	+/-0.005	U		0.005		10/04/2017	15:29	LB90573



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90573

SDG No.: LB90573

Contract:

Lab Code: CHEM

Case No.: LB90573

SAS No.: LB90573

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00025	+/-0.005	U		0.005		10/04/2017	15:29	LB90573
CCB2	Reactive Cyanide	0.00023	+/-0.005	U		0.005		10/04/2017	15:36	LB90573
CCB3	Reactive Cyanide	0.00043	+/-0.005	U		0.005		10/04/2017	15:44	LB90573
CCB4	Reactive Cyanide	0.00035	+/-0.005	U		0.005		10/04/2017	15:48	LB90573



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90573

SDG No.: LB90573

Contract: Lab Code: CHEM

Case No.: LB90573

SAS No.: LB90573

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: LB90573

SDG No.: LB90573

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
PB102905BL	Reactive Cyanide	SOLID 0.0016	<0.05	Batch Number: U		PB102905 0.05		Prep Date: 10/04/2017	10/04/2017 15:29	LB90573

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90573 **Level:** LOW **SDG No.:** LB90573
Contract: **Lab Code:** CHEM **Case No.:** LB90573 **SAS No.:** LB90573
Matrix: Solid **Sample ID:** I5586-21 **Client ID:** G72-0-1DUP
Percent Solids for Sample: 100 **Duplicate ID** I5586-21DUP **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	-0.004	U			