

Daily Analysis Runlog For Sequence/QC Batch ID # LB87863

Review By		Review On				
SubDirectory		LB87863		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP55371,WP55372,WP55373,WP55374,WP55375,WP55376,WP55377,WP55378				
ICV Standard		WP55381				
CCV Standard		WP55380				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55379,WP51626,WP55355				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/05/17 12:36		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/05/17 12:36		OK
3	10PPBCN	10PPBCN	CAL3	06/05/17 12:36		OK
4	50PPBCN	50PPBCN	CAL4	06/05/17 12:36		OK
5	100PPBCN	100PPBCN	CAL5	06/05/17 12:36		OK
6	250PPBCN	250PPBCN	CAL6	06/05/17 12:36		OK
7	500PPBCN	500PPBCN	CAL7	06/05/17 12:36		OK
8	ICV1	ICV1	ICV	06/05/17 14:44		OK
9	ICB1	ICB1	ICB	06/05/17 14:44		OK
10	CCV1	CCV1	CCV	06/05/17 14:44		OK
11	CCB1	CCB1	CCB	06/05/17 14:44		OK
12	PB99437BL	PB99437BL	MB	06/05/17 14:44		OK
13	I3440-02	EO-02-RO-4146-060	SAM	06/05/17 14:44		OK
14	I3440-02DUP	EO-02-RO-4146-060	DUP	06/05/17 14:44		OK
15	I3440-04	EO-02-RO-5078-060	SAM	06/05/17 14:44		OK
16	I3440-06	EO-03-RO-6703-060	SAM	06/05/17 14:44		OK
17	I3441-02	OR-RO-5267-060117	SAM	06/05/17 14:44		OK
18	I3441-04	OR-RO-5004-060117	SAM	06/05/17 14:44		OK
19	I3441-06	OR-RO-141-060117	SAM	06/05/17 14:52		OK
20	I3441-08	OR-RO-6710-060117	SAM	06/05/17 14:52		OK
21	I3441-10	OR-RO-6789-060117	SAM	06/05/17 14:52		OK

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

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Test : Reactive Cyanide

LB87863

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ICAL Standard		WP55371,WP55372,WP55373,WP55374,WP55375,WP55376,WP55377,WP55378				
ICV Standard		WP55381				
CCV Standard		WP55380				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55379,WP51626,WP55355				

22	CCV2	CCV2	CCV	06/05/17 14:52		OK
23	CCB2	CCB2	CCB	06/05/17 14:52		OK
24	I3441-12	OR-RO-17273-06011	SAM	06/05/17 14:52		OK
25	I3442-03	OK-02-060117	SAM	06/05/17 14:52		OK
26	I3443-02	SA-RO-6699AA-0601	SAM	06/05/17 14:52		OK
27	I3444-02	BU-RO-238-060117	SAM	06/05/17 14:52		OK
28	I3444-04	BU-RO-240-060117	SAM	06/05/17 14:52		OK
29	I3444-06	BU-RO-286-060117	SAM	06/05/17 14:52		OK
30	I3444-08	BU-RO-298-060117	SAM	06/05/17 14:56		OK
31	CCV3	CCV3	CCV	06/05/17 14:56		OK
32	CCB3	CCB3	CCB	06/05/17 14:56		OK



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Report of Analysis

Client:		Date Collected:	6/1/2017 12:00:00 AM
Project:	LB87863	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	EO-02-RO-4146-060117	SDG No.:	LB87863
Lab Sample ID:	I3440-02	Matrix:	Solid
Level (low/med):	low	% Solid:	90.9

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	06/02/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2017 12:00:00 AM
Project:	LB87863	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	EO-02-RO-5078-060117	SDG No.:	LB87863
Lab Sample ID:	I3440-04	Matrix:	Solid
Level (low/med):	low	% Solid:	89.8

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	06/02/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2017 12:00:00 AM
Project:	LB87863	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	EO-03-RO-6703-060117	SDG No.:	LB87863
Lab Sample ID:	I3440-06	Matrix:	Solid
Level (low/med):	low	% Solid:	87.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0009	U	1	0.025		0.05	mg/Kg	06/02/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2017 12:00:00 AM
Project:	LB87863	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	OR-RO-5267-060117	SDG No.:	LB87863
Lab Sample ID:	I3441-02	Matrix:	Solid
Level (low/med):	low	% Solid:	94.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0017	U	1	0.025		0.05	mg/Kg	06/02/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2017 12:00:00 AM
Project:	LB87863	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	OR-RO-5004-060117	SDG No.:	LB87863
Lab Sample ID:	I3441-04	Matrix:	Solid
Level (low/med):	low	% Solid:	93.7

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	06/02/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2017 12:00:00 AM
Project:	LB87863	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	OR-RO-141-060117	SDG No.:	LB87863
Lab Sample ID:	I3441-06	Matrix:	Solid
Level (low/med):	low	% Solid:	94.5

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	06/02/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2017 12:00:00 AM
Project:	LB87863	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	OR-RO-6710-060117	SDG No.:	LB87863
Lab Sample ID:	I3441-08	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.
	Reactive Cyanide	0.0001	U	1	0.025		0.05	mg/Kg	06/02/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2017 12:00:00 AM
Project:	LB87863	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	OR-RO-6789-060117	SDG No.:	LB87863
Lab Sample ID:	I3441-10	Matrix:	Solid
Level (low/med):	low	% Solid:	93.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00096	U	1	0.025		0.05	mg/Kg	06/02/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2017 12:00:00 AM
Project:	LB87863	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	OR-RO-17273-060117	SDG No.:	LB87863
Lab Sample ID:	I3441-12	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	-0.0012	U	1	0.025		0.05	mg/Kg	06/02/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2017 12:00:00 AM
Project:	LB87863	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	OK-02-060117	SDG No.:	LB87863
Lab Sample ID:	I3442-03	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.
	Reactive Cyanide	0.0024	U	1	0.025		0.05	mg/Kg	06/02/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2017 12:00:00 AM
Project:	LB87863	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	SA-RO-6699AA-060117	SDG No.:	LB87863
Lab Sample ID:	I3443-02	Matrix:	Solid
Level (low/med):	low	% Solid:	90.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00091	U	1	0.025		0.05	mg/Kg	06/02/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2017 12:00:00 AM
Project:	LB87863	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	BU-RO-238-060117	SDG No.:	LB87863
Lab Sample ID:	I3444-02	Matrix:	Solid
Level (low/med):	low	% Solid:	89.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0012	U	1	0.025		0.05	mg/Kg	06/02/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2017 12:00:00 AM
Project:	LB87863	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	BU-RO-240-060117	SDG No.:	LB87863
Lab Sample ID:	I3444-04	Matrix:	Solid
Level (low/med):	low	% Solid:	95.9

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	06/02/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2017 12:00:00 AM
Project:	LB87863	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	BU-RO-286-060117	SDG No.:	LB87863
Lab Sample ID:	I3444-06	Matrix:	Solid
Level (low/med):	low	% Solid:	80.6

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	06/02/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2017 12:00:00 AM
Project:	LB87863	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	BU-RO-298-060117	SDG No.:	LB87863
Lab Sample ID:	I3444-08	Matrix:	Solid
Level (low/med):	low	% Solid:	93

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0076	U	1	0.025		0.05	mg/Kg	06/02/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2017 12:00:00 AM
Project:	LB87863	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	BU-RO-298-060117	SDG No.:	LB87863
Lab Sample ID:	I3444-08	Matrix:	Solid
Level (low/med):	low	% Solid:	93

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

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Reactive Cyanide	0.093	0.099	93.9	0	85 - 115		06/05/2017	14:44	LB87863



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87863

SDG No.: LB87863

Contract: _____ Lab Code: CHEM

Case No.: LB87863

SAS No.: LB87863

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		06/05/2017	14:44	LB87863
CCV2	Reactive Cyanide	0.24	0.25	96	0	90 - 110		06/05/2017	14:52	LB87863
CCV3	Reactive Cyanide	0.26	0.25	104	0	90 - 110		06/05/2017	14:56	LB87863



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87863

SDG No.: LB87863

Contract:

Lab Code: CHEM

Case No.: LB87863

SAS No.: LB87863

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00025	+/-0.005	U		0.005		06/05/2017	14:44	LB87863

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00041	+/-0.005	U		0.005		06/05/2017	14:44	LB87863
CCB2	Reactive Cyanide	0.00019	+/-0.005	U		0.005		06/05/2017	14:52	LB87863
CCB3	Reactive Cyanide	0.0001	+/-0.005	U		0.005		06/05/2017	14:56	LB87863



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87863

SDG No.: LB87863

Contract: Lab Code: CHEM

Case No.: LB87863

SAS No.: LB87863

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: LB87863

SDG No.: LB87863

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
PB99437BL	Reactive Cyanide	SOLID 0.0026	<0.05	Batch Number: U		PB99437 0.05		Prep Date: 06/05/2017	06/02/2017 14:44	LB87863

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB87863 **Level:** LOW **SDG No.:** LB87863
Contract: **Lab Code:** CHEM **Case No.:** LB87863 **SAS No.:** LB87863
Matrix: Solid **Sample ID:** I3440-02 **Client ID:** EO-02-RO-4146-060117DUP
Percent Solids for Sample: 90.9 **Duplicate ID** I3440-02DUP **Percent Solids for Spike Sample:** 90.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	-0.0001	U			