

Daily Analysis Runlog For Sequence/QC Batch ID # LB91255

Review By		Review On				
SubDirectory		LB91255		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59302,WP59303,WP59304,WP59305,WP59306,WP59307,WP59308				
ICV Standard		WP59311				
CCV Standard		WP59309				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP59310,WP55836,WP55355				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/01/17 09:26		OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/01/17 09:26		OK
3	10PPBCN	10PPBCN	CAL3	11/01/17 09:26		OK
4	50PPBCN	50PPBCN	CAL4	11/01/17 09:26		OK
5	100PPBCN	100PPBCN	CAL5	11/01/17 09:26		OK
6	250PPBCN	250PPBCN	CAL6	11/01/17 09:26		OK
7	500PPBCN	500PPBCN	CAL7	11/01/17 09:26		OK
8	ICV1	ICV1	ICV	11/01/17 10:39		OK
9	ICB1	ICB1	ICB	11/01/17 10:39		OK
10	CCV1	CCV1	CCV	11/01/17 10:39		OK
11	CCB1	CCB1	CCB	11/01/17 10:39		OK
12	PB103855BL	PB103855BL	MB	11/01/17 10:39		OK
13	I6225-01	CB-1017-S-TCLP-47	SAM	11/01/17 10:39		OK
14	I6225-01DUP	CB-1017-S-TCLP-47	DUP	11/01/17 10:39		OK
15	I6225-02	CB-1017-S-TCLP-47	SAM	11/01/17 10:46		OK
16	I6226-08	TP-1	SAM	11/01/17 10:46		OK
17	I6226-16	TP-2	SAM	11/01/17 10:46		OK
18	I6226-18	T-1-CONCRETE	SAM	11/01/17 10:46		OK
19	I6231-02	TR-04-103017	SAM	11/01/17 10:47		OK
20	I6236-02	133	SAM	11/01/17 10:47		OK
21	I6239-01	DRUM-1-4	SAM	11/01/17 10:47		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB91255

Review By		Review On				
SubDirectory		LB91255		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59302,WP59303,WP59304,WP59305,WP59306,WP59307,WP59308				
ICV Standard		WP59311				
CCV Standard		WP59309				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP59310,WP55836,WP55355				
22	CCV2	CCV2	CCV	11/01/17 10:47		OK
23	CCB2	CCB2	CCB	11/01/17 10:47		OK
24	I6239-02	DRUM-5	SAM	11/01/17 10:47		OK
25	PB103792BL	PB103792BL	MB	11/01/17 10:47		OK
26	I6182-02	RT-3026	SAM	11/01/17 10:54		OK
27	I6182-02DUP	RT-3026DUP	DUP	11/01/17 10:54		OK
28	I6194-02	BU-01-102717	SAM	11/01/17 10:54		OK
29	I6196-02	OK-03-102717	SAM	11/01/17 10:54		OK
30	I6200-02	OR-01-102717	SAM	11/01/17 10:54		OK
31	I6202-02	ROLL-OFF-2	SAM	11/01/17 10:54		OK
32	I6206-02	EO-01-102717-A	SAM	11/01/17 10:54		OK
33	I6206-04	EO-01-102717-B	SAM	11/01/17 10:54		OK
34	CCV3	CCV3	CCV	11/01/17 10:54		OK
35	CCB3	CCB3	CCB	11/01/17 10:54		OK
36	I6206-06	EO-01-102717-C	SAM	11/01/17 10:54		OK
37	PB103856BL	PB103856BL	MB	11/01/17 10:59		OK
38	I6236-05	FM782	SAM	11/01/17 10:59		OK
39	I6236-05DUP	FM782DUP	DUP	11/01/17 10:59		OK
40	CCV4	CCV4	CCV	11/01/17 10:59		OK
41	CCB4	CCB4	CCB	11/01/17 10:59		OK



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Report of Analysis

Client:		Date Collected:	10/27/2017 12:00:00 AM
Project:	LB91255	Date Received:	10/27/2017 12:00:00 AM
Client Sample ID:	RT-3026	SDG No.:	LB91255
Lab Sample ID:	I6182-02	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	-0.028	U	1	0.025		0.05	mg/Kg	10/30/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/27/2017 12:00:00 AM
Project:	LB91255	Date Received:	10/27/2017 12:00:00 AM
Client Sample ID:	BU-01-102717	SDG No.:	LB91255
Lab Sample ID:	I6194-02	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	-0.03	U	1	0.025		0.05	mg/Kg	10/30/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/27/2017 12:00:00 AM
Project:	LB91255	Date Received:	10/27/2017 12:00:00 AM
Client Sample ID:	OK-03-102717	SDG No.:	LB91255
Lab Sample ID:	I6196-02	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	-0.03	U	1	0.025		0.05	mg/Kg	10/30/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/27/2017 12:00:00 AM
Project:	LB91255	Date Received:	10/27/2017 12:00:00 AM
Client Sample ID:	OR-01-102717	SDG No.:	LB91255
Lab Sample ID:	I6200-02	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	-0.03	U	1	0.025		0.05	mg/Kg	10/30/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/27/2017 12:00:00 AM
Project:	LB91255	Date Received:	10/27/2017 12:00:00 AM
Client Sample ID:	ROLL-OFF-2	SDG No.:	LB91255
Lab Sample ID:	I6202-02	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	-0.028	U	1	0.025		0.05	mg/Kg	10/30/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/27/2017 12:00:00 AM
Project:	LB91255	Date Received:	10/27/2017 12:00:00 AM
Client Sample ID:	EO-01-102717-A	SDG No.:	LB91255
Lab Sample ID:	I6206-02	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	-0.03	U	1	0.025		0.05	mg/Kg	10/30/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/27/2017 12:00:00 AM
Project:	LB91255	Date Received:	10/27/2017 12:00:00 AM
Client Sample ID:	EO-01-102717-B	SDG No.:	LB91255
Lab Sample ID:	I6206-04	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	-0.029	U	1	0.025		0.05	mg/Kg	10/30/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/27/2017 12:00:00 AM
Project:	LB91255	Date Received:	10/27/2017 12:00:00 AM
Client Sample ID:	EO-01-102717-C	SDG No.:	LB91255
Lab Sample ID:	I6206-06	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	-0.038	U	1	0.025		0.049	mg/Kg	10/30/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/27/2017 12:00:00 AM
Project:	LB91255	Date Received:	10/28/2017 12:00:00 AM
Client Sample ID:	CB-1017-S-TCLP-47S2	SDG No.:	LB91255
Lab Sample ID:	I6225-01	Matrix:	Solid
Level (low/med):	low	% Solid:	91.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.031	U	1	0.025		0.05	mg/Kg	10/31/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/27/2017 12:00:00 AM
Project:	LB91255	Date Received:	10/28/2017 12:00:00 AM
Client Sample ID:	CB-1017-S-TCLP-47S1	SDG No.:	LB91255
Lab Sample ID:	I6225-02	Matrix:	Solid
Level (low/med):	low	% Solid:	91.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.029	U	1	0.025		0.05	mg/Kg	10/31/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/28/2017 12:00:00 AM
Project:	LB91255	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	TP-1	SDG No.:	LB91255
Lab Sample ID:	I6226-08	Matrix:	Solid
Level (low/med):	low	% Solid:	88.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.029	U	1	0.025		0.05	mg/Kg	10/31/2017	11/01/2017	9012B

Report of Analysis

Client:		Date Collected:	10/28/2017 12:00:00 AM
Project:	LB91255	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	TP-2	SDG No.:	LB91255
Lab Sample ID:	I6226-16	Matrix:	Solid
Level (low/med):	low	% Solid:	89.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.029	U	1	0.025		0.05	mg/Kg	10/31/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/28/2017 12:00:00 AM
Project:	LB91255	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	T-1-CONCRETE	SDG No.:	LB91255
Lab Sample ID:	I6226-18	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	-0.029	U	1	0.025		0.05	mg/Kg	10/31/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/30/2017 12:00:00 AM
Project:	LB91255	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	TR-04-103017	SDG No.:	LB91255
Lab Sample ID:	I6231-02	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	-0.03	U	1	0.025		0.05	mg/Kg	10/31/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/30/2017 12:00:00 AM
Project:	LB91255	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	133	SDG No.:	LB91255
Lab Sample ID:	I6236-02	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	-0.027	U	1	0.025		0.05	mg/Kg	10/31/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/30/2017 12:00:00 AM
Project:	LB91255	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	FM782	SDG No.:	LB91255
Lab Sample ID:	I6236-05	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	-0.0031	U	1	0.0025		0.005	mg/L	10/31/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/30/2017 12:00:00 AM
Project:	LB91255	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	DRUM-1-4	SDG No.:	LB91255
Lab Sample ID:	I6239-01	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	-0.027	U	1	0.025		0.05	mg/Kg	10/31/2017	11/01/2017	9012B

Report of Analysis

Client:		Date Collected:	10/30/2017 12:00:00 AM
Project:	LB91255	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	DRUM-5	SDG No.:	LB91255
Lab Sample ID:	I6239-02	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	-0.028	U	1	0.025		0.05	mg/Kg	10/31/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/30/2017 12:00:00 AM
Project:	LB91255	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	DRUM-5	SDG No.:	LB91255
Lab Sample ID:	I6239-02	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB91255

SDG No.: LB91255

Contract: _____ Lab Code: CHEM

Case No.: LB91255

SAS No.: LB91255

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		11/01/2017	10:39	LB91255
CCV2	Reactive Cyanide	0.25	0.25	100	0	90 - 110		11/01/2017	10:47	LB91255
CCV3	Reactive Cyanide	0.25	0.25	100	0	90 - 110		11/01/2017	10:54	LB91255
CCV4	Reactive Cyanide	0.26	0.25	104	0	90 - 110		11/01/2017	10:59	LB91255



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91255 SDG No.: LB91255
Contract: Lab Code: CHEM Case No.: LB91255 SAS No.: LB91255

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.0029	+/-0.005	U		0.005		11/01/2017	10:39	LB91255



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91255

SDG No.: LB91255

Contract:

Lab Code: CHEM

Case No.: LB91255

SAS No.: LB91255

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.003	+/-0.005	U		0.005		11/01/2017	10:39	LB91255
CCB2	Reactive Cyanide	-0.0028	+/-0.005	U		0.005		11/01/2017	10:47	LB91255
CCB3	Reactive Cyanide	-0.0027	+/-0.005	U		0.005		11/01/2017	10:54	LB91255
CCB4	Reactive Cyanide	-0.0027	+/-0.005	U		0.005		11/01/2017	10:59	LB91255



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91255

SDG No.: LB91255

Contract: Lab Code: CHEM

Case No.: LB91255

SAS No.: LB91255

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: LB91255

SDG No.: LB91255

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
PB103792BL	Reactive Cyanide	SOLID		Batch Number:		PB103792		Prep Date:	10/30/2017	
		-0.03	<0.05	U		0.05		11/01/2017	10:47	LB91255
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB103855BL	Reactive Cyanide	SOLID		Batch Number:		PB103855		Prep Date:	10/31/2017	
		-0.031	<0.05	U		0.05		11/01/2017	10:39	LB91255
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB103856BL	Reactive Cyanide	WATER		Batch Number:		PB103856		Prep Date:	10/31/2017	
		-0.003	<0.005	U		0.005		11/01/2017	10:59	LB91255

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91255 Level: LOW SDG No.: LB91255
Contract: _____ Lab Code: CHEM Case No.: LB91255 SAS No.: LB91255
Matrix: Solid Sample ID: I6182-02 Client ID: RT-3026DUP
Percent Solids for Sample: 100 Duplicate ID I6182-02DUP 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	-0.029	U			



GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91255 Level: LOW SDG No.: LB91255
Contract: _____ Lab Code: CHEM Case No.: LB91255 SAS No.: LB91255
Matrix: Solid Sample ID: I6225-01 Client ID: CB-1017-S-TCLP-47S2DUP
Percent Solids for Sample: 91.3 Duplicate ID I6225-01DUP Percent Solids for Spike Sample: 91.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	-0.031	U			



GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91255 Level: LOW SDG No.: LB91255
Contract: _____ Lab Code: CHEM Case No.: LB91255 SAS No.: LB91255
Matrix: WATER Sample ID: I6236-05 Client ID: FM782DUP
Percent Solids for Sample: 0 Duplicate ID I6236-05DUP 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	-0.003	U			