

Daily Analysis Runlog For Sequence/QC Batch ID # LB88051

Review By		Review On				
SubDirectory		LB88051		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP55600,WP55601,WP55602,WP55603,WP55604,WP55605,WP55606,WP55607				
ICV Standard		W1541				
CCV Standard		WP55609				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP55608,WP51626,WP55355				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/13/17 09:35		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/13/17 09:35		OK
3	10PPBCN	10PPBCN	CAL3	06/13/17 09:35		OK
4	50PPBCN	50PPBCN	CAL4	06/13/17 09:35		OK
5	100PPBCN	100PPBCN	CAL5	06/13/17 09:35		OK
6	250PPBCN	250PPBCN	CAL6	06/13/17 09:35		OK
7	500PPBCN	500PPBCN	CAL7	06/13/17 09:35		OK
8	ICV1	ICV1	ICV	06/13/17 15:32		OK
9	ICB1	ICB1	ICB	06/13/17 15:32		OK
10	CCV1	CCV1	CCV	06/13/17 15:32		OK
11	CCB1	CCB1	CCB	06/13/17 15:32		OK
12	PB99735BL	PB99735BL	MB	06/13/17 15:32		OK
13	PB99735BS	PB99735BS	LCS	06/13/17 15:32		OK
14	LOWPB99735	LOWPB99735	SAM	06/13/17 15:32		OK
15	HIGHPB99735	HIGHPB99735	SAM	06/13/17 15:32		OK
16	I3632-01	BIN-6	SAM	06/13/17 15:32		OK
17	I3632-01DUP	BIN-6DUP	DUP	06/13/17 15:32		OK
18	I3632-01MS	BIN-6MS	MS	06/13/17 15:32		OK
19	I3632-01MSD	BIN-6MSD	MSD	06/13/17 15:40		OK
20	I3633-01	BIN-5	SAM	06/13/17 15:40		OK
21	I3634-01	SP-KEARNY-COMP	SAM	06/13/17 15:40		OK

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

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ICV Standard		W1541				
CCV Standard		WP55609				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP55608,WP51626,WP55355				
22	CCV2	CCV2	CCV	06/13/17 15:40		OK
23	CCB2	CCB2	CCB	06/13/17 15:40		OK
24	I3635-01	CL-02-061217-A	SAM	06/13/17 15:40		OK
25	I3635-04	CL-02-061217-B	SAM	06/13/17 15:40		OK
26	I3635-07	CL-02-061217-C	SAM	06/13/17 15:40		OK
27	I3635-10	CL-02-061217-D	SAM	06/13/17 15:40		OK
28	I3635-13	CL-02-061217-E	SAM	06/13/17 15:40		OK
29	I3636-01	OR-02-061217	SAM	06/13/17 15:40		OK
30	I3640-01	NF-DRUMS-STONE-	SAM	06/13/17 15:45		OK
31	I3642-03	E2-CONCRETE-BAT	SAM	06/13/17 15:45		OK
32	I3643-01	RO-VNJ217	SAM	06/13/17 15:45		OK
33	CCV3	CCV3	CCV	06/13/17 15:45		OK
34	CCB3	CCB3	CCB	06/13/17 15:45		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB88051	Date Received:	
Client Sample ID:	HIGHPB99735	SDG No.:	LB88051
Lab Sample ID:	HIGHPB99735	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.47		1	0.003		0.005	mg/L		06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88051	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	BIN-6	SDG No.:	LB88051
Lab Sample ID:	I3632-01	Matrix:	Solid
Level (low/med):	low	% Solid:	99.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.012	U	1	0.032		0.24	mg/Kg	06/13/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88051	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	BIN-5	SDG No.:	LB88051
Lab Sample ID:	I3633-01	Matrix:	Solid
Level (low/med):	low	% Solid:	99.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.044	U	1	0.032		0.24	mg/Kg	06/13/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88051	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	SP-KEARNY-COMP	SDG No.:	LB88051
Lab Sample ID:	I3634-01	Matrix:	Solid
Level (low/med):	low	% Solid:	75

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.25	J	1	0.042		0.32	mg/Kg	06/13/2017	06/13/2017	9012B

Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88051	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	CL-02-061217-A	SDG No.:	LB88051
Lab Sample ID:	I3635-01	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.
57-12-5	Cyanide	-0.006	U	1	0.033		0.25	mg/Kg	06/13/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88051	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	CL-02-061217-B	SDG No.:	LB88051
Lab Sample ID:	I3635-04	Matrix:	Solid
Level (low/med):	low	% Solid:	94.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0051	U	1	0.034		0.25	mg/Kg	06/13/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88051	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	CL-02-061217-C	SDG No.:	LB88051
Lab Sample ID:	I3635-07	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.
57-12-5	Cyanide	-0.028	U	1	0.035		0.27	mg/Kg	06/13/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88051	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	CL-02-061217-D	SDG No.:	LB88051
Lab Sample ID:	I3635-10	Matrix:	Solid
Level (low/med):	low	% Solid:	91

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.011	U	1	0.035		0.26	mg/Kg	06/13/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88051	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	CL-02-061217-E	SDG No.:	LB88051
Lab Sample ID:	I3635-13	Matrix:	Solid
Level (low/med):	low	% Solid:	93.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.015	U	1	0.034		0.26	mg/Kg	06/13/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88051	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	OR-02-061217	SDG No.:	LB88051
Lab Sample ID:	I3636-01	Matrix:	Solid
Level (low/med):	low	% Solid:	97.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.048	U	1	0.033		0.25	mg/Kg	06/13/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88051	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	NF-DRUMS-STONE-COMP	SDG No.:	LB88051
Lab Sample ID:	I3640-01	Matrix:	Solid
Level (low/med):	low	% Solid:	99.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.033	U	1	0.031		0.24	mg/Kg	06/13/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88051	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	E2-CONCRETE-BATCH-13	SDG No.:	LB88051
Lab Sample ID:	I3642-03	Matrix:	Solid
Level (low/med):	low	% Solid:	94.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.011	U	1	0.034		0.25	mg/Kg	06/13/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2017 12:00:00 AM
Project:	LB88051	Date Received:	6/12/2017 12:00:00 AM
Client Sample ID:	RO-VNJ217	SDG No.:	LB88051
Lab Sample ID:	I3643-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.014	U	1	0.036		0.28	mg/Kg	06/13/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB88051	Date Received:	
Client Sample ID:	LOWPB99735	SDG No.:	LB88051
Lab Sample ID:	LOWPB99735	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0093		1	0.003		0.005	mg/L		06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB88051	Date Received:	
Client Sample ID:	LOWPB99735	SDG No.:	LB88051
Lab Sample ID:	LOWPB99735	Matrix:	WATER
Level (low/med):	low	% Solid:	0

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: LB88051

SDG No.: LB88051

Contract: _____ Lab Code: CHEM

Case No.: LB88051 SAS No.: LB88051

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	Cyanide	0.092	0.099	92.9	0	85 - 115		06/13/2017	15:32	LB88051



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB88051

SDG No.: LB88051

Contract: _____ Lab Code: CHEM

Case No.: LB88051

SAS No.: LB88051

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	Cyanide	0.24	0.25	96	0	90 - 110		06/13/2017	15:32	LB88051
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		06/13/2017	15:40	LB88051
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		06/13/2017	15:45	LB88051



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88051 **SDG No.:** LB88051
Contract: **Lab Code:** CHEM **Case No.:** LB88051 **SAS No.:** LB88051

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00023	+/-0.005	U		0.005		06/13/2017	15:32	LB88051



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88051

SDG No.: LB88051

Contract:

Lab Code: CHEM

Case No.: LB88051

SAS No.: LB88051

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00039	+/-0.005	U		0.005		06/13/2017	15:32	LB88051
CCB2	Cyanide	-0.00096	+/-0.005	U		0.005		06/13/2017	15:40	LB88051
CCB3	Cyanide	-0.00039	+/-0.005	U		0.005		06/13/2017	15:45	LB88051



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88051

SDG No.: LB88051

Contract: Lab Code: CHEM

Case No.: LB88051

SAS No.: LB88051

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: LB88051

SDG No.: LB88051

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
PB99735BL	Cyanide	SOLID -0.029	<0.25	Batch Number: U		PB99735 0.25		Prep Date: 06/13/2017	06/13/2017 15:32	LB88051



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB88051 level: low sdg no.: LB88051
contract: lab code: CHEM case no.: LB88051 sas no.: LB88051
matrix: Solid sample id: I3632-01 client id: BIN-6MS
Percent Solids for Sample: 99.4 Spiked ID: I3632-01MS Percent Solids for Spike Sample: 99.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.032	U	2	95		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB88051 level: low sdg no.: LB88051
contract: lab code: CHEM case no.: LB88051 sas no.: LB88051
matrix: Solid sample id: I3632-01 client id: BIN-6MSD
Percent Solids for Sample: 99.4 Spiked ID: I3632-01MSD Percent Solids for Spike Sample: 99.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.032	U	2	90		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB88051 **Level:** LOW **SDG No.:** LB88051
Contract: **Lab Code:** CHEM **Case No.:** LB88051 **SAS No.:** LB88051
Matrix: Solid **Sample ID:** I3632-01 **Client ID:** BIN-6DUP
Percent Solids for Sample: 99.4 **Duplicate ID** I3632-01DUP **Percent Solids for Spike Sample:** 99.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.032	U	-0.02	U			



GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB88051 **Level:** LOW **SDG No.:** LB88051
Contract: **Lab Code:** CHEM **Case No.:** LB88051 **SAS No.:** LB88051
Matrix: Solid **Sample ID:** I3632-01MS **Client ID:** BIN-6MSD
Percent Solids for Sample: 99.4 **Duplicate ID** I3632-01MSD **Percent Solids for Spike Sample:** 99.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.9		1.8		5		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB88051 SDG No.: LB88051
Contract: Lab Code: CHEM Case No.: LB88051 SAS No.: LB88051

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB99735BS Cyanide	mg/Kg	4.9	4.6		93.9	85 - 115	