

Daily Analysis Runlog For Sequence/QC Batch ID # LB93159

Review By		Review On				
SubDirectory		LB93159		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP61715,WP61716,WP61717,WP61718,WP61719,WP61720,WP61721				
ICV Standard		W1542				
CCV Standard		WP61722				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP61725,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	02/08/18 10:01		OK
2	5.0PPBCN	5.0PPBCN	CAL2	02/08/18 10:01		OK
3	10PPBCN	10PPBCN	CAL3	02/08/18 10:01		OK
4	50PPBCN	50PPBCN	CAL4	02/08/18 10:01		OK
5	100PPBCN	100PPBCN	CAL5	02/08/18 10:01		OK
6	250PPBCN	250PPBCN	CAL6	02/08/18 10:01		OK
7	500PPBCN	500PPBCN	CAL7	02/08/18 10:01		OK
8	ICV1	ICV1	ICV	02/08/18 10:43		OK
9	ICB1	ICB1	ICB	02/08/18 10:43		OK
10	CCV1	CCV1	CCV	02/08/18 10:43		OK
11	CCB1	CCB1	CCB	02/08/18 10:43		OK
12	PB106377BL	PB106377BL	MB	02/08/18 10:43		OK
13	PB106377BS	PB106377BS	LCS	02/08/18 10:43		OK
14	LOWPB106377	LOWPB106377	SAM	02/08/18 10:43		OK
15	HIGHPB106377	HIGHPB106377	SAM	02/08/18 10:50		OK
16	J1470-03	3N-6	SAM	02/08/18 10:50		OK
17	J1470-05	3N-7	SAM	02/08/18 10:50		OK
18	CCV2	CCV2	CCV	02/08/18 10:50		OK
19	CCB2	CCB2	CCB	02/08/18 10:50		OK
20	J1470-07	3N-8	SAM	02/08/18 10:50		OK
21	J1470-09	3N-9	SAM	02/08/18 10:50		OK

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

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ICV Standard		W1542				
CCV Standard		WP61722				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP61725,WP59958,WP60878				
22	J1470-11	3N-10	SAM	02/08/18 10:57		OK
23	J1470-13	3N-11	SAM	02/08/18 10:57		OK
24	J1470-15	3N-12	SAM	02/08/18 10:57		OK
25	J1470-17	3N-13	SAM	02/08/18 10:57		OK
26	J1470-19	3N-14	SAM	02/08/18 10:57		OK
27	CCV3	CCV3	CCV	02/08/18 10:57		OK
28	CCB3	CCB3	CCB	02/08/18 10:57		OK
29	J1470-01	3N-5	SAM	02/08/18 11:16		OK
30	J1470-01DUP	3N-5DUP	DUP	02/08/18 11:16		OK
31	J1470-01MS	3N-5MS	MS	02/08/18 11:16		OK
32	J1470-01MSD	3N-5MSD	MSD	02/08/18 11:16		OK
33	CCV4	CCV4	CCV	02/08/18 11:16		OK
34	CCB4	CCB4	CCB	02/08/18 11:16		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB93159	Date Received:	
Client Sample ID:	HIGHPB106377	SDG No.:	LB93159
Lab Sample ID:	HIGHPB106377	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	0.48		1	0.003		0.005	mg/L		02/08/2018	9012B

Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93159	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	3N-5	SDG No.:	LB93159
Lab Sample ID:	J1470-01	Matrix:	Solid
Level (low/med):	low	% Solid:	71.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.045		0.34	mg/Kg	02/07/2018	02/08/2018	9012B

Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93159	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	3N-6	SDG No.:	LB93159
Lab Sample ID:	J1470-03	Matrix:	Solid
Level (low/med):	low	% Solid:	76.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.26	J	1	0.042		0.32	mg/Kg	02/07/2018	02/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93159	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	3N-7	SDG No.:	LB93159
Lab Sample ID:	J1470-05	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	0.13	J	1	0.043		0.33	mg/Kg	02/07/2018	02/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93159	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	3N-8	SDG No.:	LB93159
Lab Sample ID:	J1470-07	Matrix:	Solid
Level (low/med):	low	% Solid:	71.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.2	J	1	0.045		0.34	mg/Kg	02/07/2018	02/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93159	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	3N-9	SDG No.:	LB93159
Lab Sample ID:	J1470-09	Matrix:	Solid
Level (low/med):	low	% Solid:	81.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.14	J	1	0.039		0.29	mg/Kg	02/07/2018	02/08/2018	9012B

Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93159	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	3N-10	SDG No.:	LB93159
Lab Sample ID:	J1470-11	Matrix:	Solid
Level (low/med):	low	% Solid:	73.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.065	J	1	0.045		0.34	mg/Kg	02/07/2018	02/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93159	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	3N-11	SDG No.:	LB93159
Lab Sample ID:	J1470-13	Matrix:	Solid
Level (low/med):	low	% Solid:	80.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.082	J	1	0.04		0.3	mg/Kg	02/07/2018	02/08/2018	9012B

Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93159	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	3N-12	SDG No.:	LB93159
Lab Sample ID:	J1470-15	Matrix:	Solid
Level (low/med):	low	% Solid:	79.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.04		0.31	mg/Kg	02/07/2018	02/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93159	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	3N-13	SDG No.:	LB93159
Lab Sample ID:	J1470-17	Matrix:	Solid
Level (low/med):	low	% Solid:	77.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.18	J	1	0.043		0.32	mg/Kg	02/07/2018	02/08/2018	9012B

Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93159	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	3N-14	SDG No.:	LB93159
Lab Sample ID:	J1470-19	Matrix:	Solid
Level (low/med):	low	% Solid:	81.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	J	1	0.039		0.3	mg/Kg	02/07/2018	02/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93159	Date Received:	
Client Sample ID:	LOWPB106377	SDG No.:	LB93159
Lab Sample ID:	LOWPB106377	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	0.0096		1	0.003		0.005	mg/L		02/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93159	Date Received:	
Client Sample ID:	LOWPB106377	SDG No.:	LB93159
Lab Sample ID:	LOWPB106377	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: LB93159

SDG No.: LB93159

Contract: _____

Lab Code: CHEM

Case No.: LB93159

SAS No.: LB93159

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Cyanide	0.099	0.099	100		85 - 115		02/08/2018	10:43	lb93159



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93159

SDG No.: LB93159

Contract: _____ Lab Code: CHEM

Case No.: LB93159

SAS No.: LB93159

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Cyanide	0.24	0.25	96		90 - 110		02/08/2018	10:43	lb93159
CCV2	Cyanide	0.24	0.25	96		90 - 110		02/08/2018	10:50	lb93159
CCV3	Cyanide	0.25	0.25	100		90 - 110		02/08/2018	10:57	lb93159
CCV4	Cyanide	0.25	0.25	100		90 - 110		02/08/2018	11:16	lb93159



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93159 **SDG No.:** LB93159
Contract: **Lab Code:** CHEM **Case No.:** LB93159 **SAS No.:** LB93159

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00053	+/-0.005	U		0.005		02/08/2018	10:43	lb93159



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93159

SDG No.: LB93159

Contract:

Lab Code: CHEM

Case No.: LB93159

SAS No.: LB93159

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00082	+/-0.005	U		0.005		02/08/2018	10:43	lb93159
CCB2	Cyanide	0.00074	+/-0.005	U		0.005		02/08/2018	10:50	lb93159
CCB3	Cyanide	0.00051	+/-0.005	U		0.005		02/08/2018	10:57	lb93159
CCB4	Cyanide	0.00058	+/-0.005	U		0.005		02/08/2018	11:16	lb93159



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93159

SDG No.: LB93159

Contract: Lab Code: CHEM

Case No.: LB93159

SAS No.: LB93159

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: LB93159

SDG No.: LB93159

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
PB106377BL		SOLID		Batch Number:		PB106377		Prep Date:	02/07/2018	
	Cyanide	0.044	<0.25	J		0.25		02/08/2018	10:43	lb93159



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93159 level: low sdg no.: LB93159
contract: lab code: CHEM case no.: LB93159 sas no.: LB93159
matrix: Solid sample id: J1470-01 client id: 3N-5MS
Percent Solids for Sample: 71.4 Spiked ID: J1470-01MS Percent Solids for Spike Sample: 71.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.3		0.11	J	2.7	81		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93159 level: low sdg no.: LB93159
contract: lab code: CHEM case no.: LB93159 sas no.: LB93159
matrix: Solid sample id: J1470-01 client id: 3N-5MSD
Percent Solids for Sample: 71.4 Spiked ID: J1470-01MSD Percent Solids for Spike Sample: 71.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.3		0.11	J	2.8	78		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB93159 **Level:** LOW **SDG No.:** LB93159
Contract: **Lab Code:** CHEM **Case No.:** LB93159 **SAS No.:** LB93159
Matrix: Solid **Sample ID:** J1470-01 **Client ID:** 3N-5DUP
Percent Solids for Sample: 71.4 **Duplicate ID** J1470-01DUP **Percent Solids for Spike Sample:** 71.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.11	J	0.1	J	10		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB93159 **Level:** LOW **SDG No.:** LB93159
Contract: **Lab Code:** CHEM **Case No.:** LB93159 **SAS No.:** LB93159
Matrix: Solid **Sample ID:** J1470-01MS **Client ID:** 3N-5MSD
Percent Solids for Sample: 71.4 **Duplicate ID** J1470-01MSD **Percent Solids for Spike Sample:** 71.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.3		2.3		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93159

SDG No.: LB93159

Contract:

Lab Code: CHEM

Case No.: LB93159

SAS No.: LB93159

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106377BS Cyanide	mg/Kg	4.8	4.7		97.9	85 - 115	