

Daily Analysis Runlog For Sequence/QC Batch ID # LB94450

Review By		Review On				
SubDirectory		LB94450		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63470,WP63471,WP63472,WP63473,WP63474,WP63475,WP63476				
ICV Standard		W1542				
CCV Standard		WP63477				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP63479,WP59958,WP60878				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	04/06/18 12:35		
2	5.0PPBCN	5.0PPBCN	CAL2	04/06/18 12:35		
3	10PPBCN	10PPBCN	CAL3	04/06/18 12:35		
4	50PPBCN	50PPBCN	CAL4	04/06/18 12:35		
5	100PPBCN	100PPBCN	CAL5	04/06/18 12:35		
6	250PPBCN	250PPBCN	CAL6	04/06/18 12:35		
7	500PPBCN	500PPBCN	CAL7	04/06/18 12:35		
8	ICV1	ICV1	ICV	04/06/18 15:28		
9	ICB1	ICB1	ICB	04/06/18 15:28		
10	CCV1	CCV1	CCV	04/06/18 15:28		
11	CCB1	CCB1	CCB	04/06/18 15:28		
12	PB108070BL	PB108070BL	MB	04/06/18 15:28		
13	PB108070BS	PB108070BS	LCS	04/06/18 15:28		
14	J2164-01	SA-01-040518	SAM	04/06/18 15:28		
15	J2164-01DUP	SA-01-040518DUP	DUP	04/06/18 15:28		
16	J2164-01MS	SA-01-040518MS	MS	04/06/18 15:28		
17	J2164-01MSD	SA-01-040518MSD	MSD	04/06/18 15:28		
18	J2165-01	SU-04-040518	SAM	04/06/18 15:28		
19	J2248-01	11944	SAM	04/06/18 15:35		
20	J2248-03	12000	SAM	04/06/18 15:35		
21	J2248-05	RT3059	SAM	04/06/18 15:35		

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

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SubDirectory		Test : Cyanide				
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ICV Standard		W1542				
CCV Standard		WP63477				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP63479,WP59958,WP60878				
22	CCV2	CCV2	CCV	04/06/18 15:35		
23	CCB2	CCB2	CCB	04/06/18 15:35		
24	J2254-01	STOCKPILE	SAM	04/06/18 15:35		
25	J2256-01	FK-BPM-02-004-ABC	SAM	04/06/18 15:35		
26	J2257-01	LP-OILY-STONE	SAM	04/06/18 15:35		
27	J2258-01	11984	SAM	04/06/18 15:35		
28	CCV3	CCV3	CCV	04/06/18 15:35		
29	CCB3	CCB3	CCB	04/06/18 15:35		



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Report of Analysis

Client:		Date Collected:	4/5/2018 12:00:00 AM
Project:	LB94450	Date Received:	4/5/2018 12:00:00 AM
Client Sample ID:	SA-01-040518	SDG No.:	LB94450
Lab Sample ID:	J2164-01	Matrix:	Solid
Level (low/med):	low	% Solid:	86

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.038		0.28	mg/Kg	04/06/2018	04/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/5/2018 12:00:00 AM
Project:	LB94450	Date Received:	4/5/2018 12:00:00 AM
Client Sample ID:	SU-04-040518	SDG No.:	LB94450
Lab Sample ID:	J2165-01	Matrix:	Solid
Level (low/med):	low	% Solid:	84.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.044	J	1	0.039		0.3	mg/Kg	04/06/2018	04/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/5/2018 12:00:00 AM
Project:	LB94450	Date Received:	4/5/2018 12:00:00 AM
Client Sample ID:	11944	SDG No.:	LB94450
Lab Sample ID:	J2248-01	Matrix:	Solid
Level (low/med):	low	% Solid:	84.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.27	J	1	0.039		0.29	mg/Kg	04/06/2018	04/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/5/2018 12:00:00 AM
Project:	LB94450	Date Received:	4/5/2018 12:00:00 AM
Client Sample ID:	12000	SDG No.:	LB94450
Lab Sample ID:	J2248-03	Matrix:	Solid
Level (low/med):	low	% Solid:	88.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.072	J	1	0.035		0.27	mg/Kg	04/06/2018	04/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/5/2018 12:00:00 AM
Project:	LB94450	Date Received:	4/5/2018 12:00:00 AM
Client Sample ID:	RT3059	SDG No.:	LB94450
Lab Sample ID:	J2248-05	Matrix:	Solid
Level (low/med):	low	% Solid:	78.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.041		0.31	mg/Kg	04/06/2018	04/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/4/2018 12:00:00 AM
Project:	LB94450	Date Received:	4/5/2018 12:00:00 AM
Client Sample ID:	STOCKPILE	SDG No.:	LB94450
Lab Sample ID:	J2254-01	Matrix:	Solid
Level (low/med):	low	% Solid:	67.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.25	J	1	0.047		0.36	mg/Kg	04/06/2018	04/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/5/2018 12:00:00 AM
Project:	LB94450	Date Received:	4/5/2018 12:00:00 AM
Client Sample ID:	FK-BPM-02-004-ABCD	SDG No.:	LB94450
Lab Sample ID:	J2256-01	Matrix:	Solid
Level (low/med):	low	% Solid:	93.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.059	J	1	0.035		0.26	mg/Kg	04/06/2018	04/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/5/2018 12:00:00 AM
Project:	LB94450	Date Received:	4/5/2018 12:00:00 AM
Client Sample ID:	LP-OILY-STONE	SDG No.:	LB94450
Lab Sample ID:	J2257-01	Matrix:	Solid
Level (low/med):	low	% Solid:	82.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.17	J	1	0.039		0.3	mg/Kg	04/06/2018	04/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/5/2018 12:00:00 AM
Project:	LB94450	Date Received:	4/5/2018 12:00:00 AM
Client Sample ID:	11984	SDG No.:	LB94450
Lab Sample ID:	J2258-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.032	U	1	0.035		0.27	mg/Kg	04/06/2018	04/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/5/2018 12:00:00 AM
Project:	LB94450	Date Received:	4/5/2018 12:00:00 AM
Client Sample ID:	11984	SDG No.:	LB94450
Lab Sample ID:	J2258-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.9

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	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Cyanide	0.095	0.099	96		85 - 115		04/06/2018	15:28	LB94450



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94450

SDG No.: LB94450

Contract: _____ Lab Code: CHEM

Case No.: LB94450

SAS No.: LB94450

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		04/06/2018	15:28	LB94450
CCV2	Cyanide	0.24	0.25	96		90 - 110		04/06/2018	15:35	LB94450
CCV3	Cyanide	0.25	0.25	100		90 - 110		04/06/2018	15:35	LB94450



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94450

SDG No.: LB94450

Contract:

Lab Code: CHEM

Case No.: LB94450

SAS No.: LB94450

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.0001	+/-0.005	U		0.005		04/06/2018	15:28	LB94450

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00073	+/-0.005	U		0.005		04/06/2018	15:28	LB94450
CCB2	Cyanide	0.00067	+/-0.005	U		0.005		04/06/2018	15:35	LB94450
CCB3	Cyanide	0.00076	+/-0.005	U		0.005		04/06/2018	15:35	LB94450



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94450

SDG No.: LB94450

Contract: Lab Code: CHEM

Case No.: LB94450

SAS No.: LB94450

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: LB94450

SDG No.: LB94450

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
PB108070BL		SOLID		Batch Number:		PB108070		Prep Date:	04/06/2018	
	Cyanide	-0.0092	<0.24	U		0.24		04/06/2018	15:28	LB94450



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB94450 level: low sdg no.: LB94450
contract: lab code: CHEM case no.: LB94450 sas no.: LB94450
matrix: Solid sample id: J2164-01 client id: SA-01-040518MS
Percent Solids for Sample: 86 Spiked ID: J2164-01MS Percent Solids for Spike Sample: 86

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.12	J	2.3	77		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB94450 level: low sdg no.: LB94450
contract: lab code: CHEM case no.: LB94450 sas no.: LB94450
matrix: Solid sample id: J2164-01 client id: SA-01-040518MSD
Percent Solids for Sample: 86 Spiked ID: J2164-01MSD Percent Solids for Spike Sample: 86

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125		2	0.12	J	2.3	82		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94450 **Level:** LOW **SDG No.:** LB94450
Contract: **Lab Code:** CHEM **Case No.:** LB94450 **SAS No.:** LB94450
Matrix: Solid **Sample ID:** J2164-01 **Client ID:** SA-01-040518DUP
Percent Solids for Sample: 86 **Duplicate ID** J2164-01DUP **Percent Solids for Spike Sample:** 86

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.12	J	0.13	J	8		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94450 **Level:** LOW **SDG No.:** LB94450
Contract: **Lab Code:** CHEM **Case No.:** LB94450 **SAS No.:** LB94450
Matrix: Solid **Sample ID:** J2164-01MS **Client ID:** SA-01-040518MSD
Percent Solids for Sample: 86 **Duplicate ID** J2164-01MSD **Percent Solids for Spike Sample:** 86

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.9			2	5		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94450

SDG No.: LB94450

Contract:

Lab Code: CHEM

Case No.: LB94450

SAS No.: LB94450

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB108070BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	