

Daily Analysis Runlog For Sequence/QC Batch ID # LB93046

Review By		Review On				
SubDirectory		LB93046		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP61523,WP61524,WP61525,WP61526,WP61527,WP61528,WP61529				
ICV Standard		W1542				
CCV Standard		WP61530				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP61532,WP59958,WP60878				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	02/01/18 11:50		OK
2	5.0PPBCN	5.0PPBCN	CAL2	02/01/18 11:50		OK
3	10PPBCN	10PPBCN	CAL3	02/01/18 11:50		OK
4	50PPBCN	50PPBCN	CAL4	02/01/18 11:50		OK
5	100PPBCN	100PPBCN	CAL5	02/01/18 11:50		OK
6	250PPBCN	250PPBCN	CAL6	02/01/18 11:50		OK
7	500PPBCN	500PPBCN	CAL7	02/01/18 11:50		OK
8	ICV1	ICV1	ICV	02/01/18 12:28		OK
9	ICB1	ICB1	ICB	02/01/18 12:28		OK
10	CCV1	CCV1	CCV	02/01/18 12:28		OK
11	CCB1	CCB1	CCB	02/01/18 12:28		OK
12	PB106247BL	PB106247BL	MB	02/01/18 12:28		OK
13	PB106247BS	PB106247BS	LCS	02/01/18 12:28		OK
14	LOWPB106247	LOWPB106247	SAM	02/01/18 12:28		OK
15	HIGHPB106247	HIGHPB106247	SAM	02/01/18 12:35		OK
16	J1014-03	HD-02-013118	SAM	02/01/18 12:35		OK
17	J1014-03DUP	HD-02-013118DUP	DUP	02/01/18 12:35		OK
18	J1014-03MS	HD-02-013118MS	MS	02/01/18 12:35		OK
19	J1014-03MSD	HD-02-013118MSD	MSD	02/01/18 12:35		OK
20	J1022-12	SU-04-013118	SAM	02/01/18 12:35		OK
21	J1413-04	SOIL-1	SAM	02/01/18 12:35		OK



Instrument ID : KONELAB

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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ICAL Standard		WP61523,WP61524,WP61525,WP61526,WP61527,WP61528,WP61529				
ICV Standard		W1542				
CCV Standard		WP61530				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP61532,WP59958,WP60878				
22	CCV2	CCV2	CCV	02/01/18 12:58		OK
23	CCB2	CCB2	CCB	02/01/18 12:58		OK
24	J1413-09	SOIL-2	SAM	02/01/18 12:58		OK
25	CCV3	CCV3	CCV	02/01/18 12:58		OK
26	CCB3	CCB3	CCB	02/01/18 12:58		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB93046	Date Received:	
Client Sample ID:	HIGHPB106247	SDG No.:	LB93046
Lab Sample ID:	HIGHPB106247	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	0.49		1	0.003		0.005	mg/L		02/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/31/2018 12:00:00 AM
Project:	LB93046	Date Received:	1/31/2018 12:00:00 AM
Client Sample ID:	HD-02-013118	SDG No.:	LB93046
Lab Sample ID:	J1014-03	Matrix:	Solid
Level (low/med):	low	% Solid:	89.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.042	J	1	0.036		0.27	mg/Kg	02/01/2018	02/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/31/2018 12:00:00 AM
Project:	LB93046	Date Received:	1/31/2018 12:00:00 AM
Client Sample ID:	SU-04-013118	SDG No.:	LB93046
Lab Sample ID:	J1022-12	Matrix:	Solid
Level (low/med):	low	% Solid:	88.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.061	J	1	0.037		0.28	mg/Kg	02/01/2018	02/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/31/2018 12:00:00 AM
Project:	LB93046	Date Received:	1/31/2018 12:00:00 AM
Client Sample ID:	SOIL-1	SDG No.:	LB93046
Lab Sample ID:	J1413-04	Matrix:	Solid
Level (low/med):	low	% Solid:	89.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.27		1	0.036		0.27	mg/Kg	02/01/2018	02/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/31/2018 12:00:00 AM
Project:	LB93046	Date Received:	1/31/2018 12:00:00 AM
Client Sample ID:	SOIL-2	SDG No.:	LB93046
Lab Sample ID:	J1413-09	Matrix:	Solid
Level (low/med):	low	% Solid:	81.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.34		1	0.039		0.29	mg/Kg	02/01/2018	02/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93046	Date Received:	
Client Sample ID:	LOWPB106247	SDG No.:	LB93046
Lab Sample ID:	LOWPB106247	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	0.0097		1	0.003		0.005	mg/L		02/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93046	Date Received:	
Client Sample ID:	LOWPB106247	SDG No.:	LB93046
Lab Sample ID:	LOWPB106247	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: LB93046

SDG No.: LB93046

Contract: _____

Lab Code: CHEM

Case No.: LB93046

SAS No.: LB93046

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	0.097	0.099	98		85 - 115		02/01/2018	12:28	LB93046



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93046

SDG No.: LB93046

Contract: _____ Lab Code: CHEM

Case No.: LB93046

SAS No.: LB93046

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	0.25	0.25	100		90 - 110		02/01/2018	12:28	LB93046
CCV2	Cyanide	0.25	0.25	100		90 - 110		02/01/2018	12:58	LB93046
CCV3	Cyanide	0.26	0.25	104		90 - 110		02/01/2018	12:58	LB93046



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93046

SDG No.: LB93046

Contract: _____

Lab Code: CHEM

Case No.: LB93046

SAS No.: LB93046

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0	+/-0.005	U		0.005		02/01/2018	12:28	LB93046

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00016	+/-0.005	U		0.005		02/01/2018	12:28	LB93046
CCB2	Cyanide	0.00011	+/-0.005	U		0.005		02/01/2018	12:58	LB93046
CCB3	Cyanide	0.00036	+/-0.005	U		0.005		02/01/2018	12:58	LB93046



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93046

SDG No.: LB93046

Contract: Lab Code: CHEM

Case No.: LB93046

SAS No.: LB93046

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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PREPARATION BLANK SUMMARY

Client: LB93046

SDG No.: LB93046

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
PB106247BL	Cyanide	SOLID -0.0024	<0.25	Batch Number: U		PB106247 0.25		Prep Date: 02/01/2018	02/01/2018 12:28	LB93046



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93046 level: low sdg no.: LB93046
contract: lab code: CHEM case no.: LB93046 sas no.: LB93046
matrix: Solid sample id: J1014-03 client id: HD-02-013118MS
Percent Solids for Sample: 89.3 Spiked ID: J1014-03MS Percent Solids for Spike Sample: 89.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.042	J	2.2	84		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93046 level: low sdg no.: LB93046
contract: lab code: CHEM case no.: LB93046 sas no.: LB93046
matrix: Solid sample id: J1014-03 client id: HD-02-013118MSD
Percent Solids for Sample: 89.3 Spiked ID: J1014-03MSD Percent Solids for Spike Sample: 89.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125		2	0.042	J	2.2	89		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB93046 **Level:** LOW **SDG No.:** LB93046
Contract: **Lab Code:** CHEM **Case No.:** LB93046 **SAS No.:** LB93046
Matrix: Solid **Sample ID:** J1014-03 **Client ID:** HD-02-013118DUP
Percent Solids for Sample: 89.3 **Duplicate ID** J1014-03DUP **Percent Solids for Spike Sample:** 89.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.042	J	0.042	J	0		

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DUPLICATE SAMPLE SUMMARY

Client: LB93046 **Level:** LOW **SDG No.:** LB93046
Contract: **Lab Code:** CHEM **Case No.:** LB93046 **SAS No.:** LB93046
Matrix: Solid **Sample ID:** J1014-03MS **Client ID:** HD-02-013118MSD
Percent Solids for Sample: 89.3 **Duplicate ID** J1014-03MSD **Percent Solids for Spike Sample:** 89.3

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



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93046

SDG No.: LB93046

Contract:

Lab Code: CHEM

Case No.: LB93046

SAS No.: LB93046

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106247BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	