

Daily Analysis Runlog For Sequence/QC Batch ID # LB92079

Review By		Review On				
SubDirectory		LB92079		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP60262,WP60263,WP60264,WP60265,WP60266,WP60267,WP60268				
ICV Standard		W1541				
CCV Standard		WP60269				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP60270,WP59958,WP60150				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	12/11/17 10:52		OK
2	5.0PPBCN	5.0PPBCN	CAL2	12/11/17 10:52		OK
3	10PPBCN	10PPBCN	CAL3	12/11/17 10:52		OK
4	50PPBCN	50PPBCN	CAL4	12/11/17 10:52		OK
5	100PPBCN	100PPBCN	CAL5	12/11/17 10:52		OK
6	250PPBCN	250PPBCN	CAL6	12/11/17 10:52		OK
7	500PPBCN	500PPBCN	CAL7	12/11/17 10:52		OK
8	ICV1	ICV1	ICV	12/11/17 16:36		OK
9	ICB1	ICB1	ICB	12/11/17 16:36		OK
10	CCV1	CCV1	CCV	12/11/17 16:36		OK
11	CCB1	CCB1	CCB	12/11/17 16:36		OK
12	PB104902BL	PB104902BL	MB	12/11/17 16:36		OK
13	PB104902BS	PB104902BS	LCS	12/11/17 16:36		OK
14	I6813-01	Soil-Cuttings	SAM	12/11/17 16:36		OK
15	I6813-01DUP	Soil-CuttingsDUP	DUP	12/11/17 16:43		OK
16	I6813-01MS	Soil-CuttingsMS	MS	12/11/17 16:43		OK
17	I6813-01MSD	Soil-CuttingsMSD	MSD	12/11/17 16:43		OK
18	I6814-01	PHMHC-WC1	SAM	12/11/17 16:43		OK
19	PB104903BL	PB104903BL	MB	12/11/17 16:43		OK
20	PB104903BS	PB104903BS	LCS	12/11/17 16:43		OK
21	I6813-03	Drill-Cutting-Spoils	SAM	12/11/17 16:43		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		WP60269				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP60270,WP59958,WP60150				

22	CCV2	CCV2	CCV	12/11/17 16:43		OK
23	CCB2	CCB2	CCB	12/11/17 16:43		OK
24	I6813-03DUP	Drill-Cutting-SpoilsDU	DUP	12/11/17 16:43		OK
25	I6813-03MS	Drill-Cutting-SpoilsMS	MS	12/11/17 16:43		OK
26	I6813-03MSD	Drill-Cutting-SpoilsMS	MSD	12/11/17 16:47		OK
27	CCV3	CCV3	CCV	12/11/17 16:47		OK
28	CCB3	CCB3	CCB	12/11/17 16:47		OK



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Report of Analysis

Client:		Date Collected:	12/8/2017 12:00:00 AM
Project:	LB92079	Date Received:	12/8/2017 12:00:00 AM
Client Sample ID:	Soil-Cuttings	SDG No.:	LB92079
Lab Sample ID:	I6813-01	Matrix:	Solid
Level (low/med):	low	% Solid:	76.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.17	J	1	0.043		0.32	mg/Kg	12/11/2017	12/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/8/2017 12:00:00 AM
Project:	LB92079	Date Received:	12/8/2017 12:00:00 AM
Client Sample ID:	Drill-Cutting-Spoils	SDG No.:	LB92079
Lab Sample ID:	I6813-03	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	0.003	J	1	0.003		0.005	mg/L	12/11/2017	12/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/8/2017 12:00:00 AM
Project:	LB92079	Date Received:	12/8/2017 12:00:00 AM
Client Sample ID:	PHMHC-WC1	SDG No.:	LB92079
Lab Sample ID:	I6814-01	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	1.6		1	0.037		0.28	mg/Kg	12/11/2017	12/11/2017	9012B



Report of Analysis

Client:		Date Collected:	12/8/2017 12:00:00 AM
Project:	LB92079	Date Received:	12/8/2017 12:00:00 AM
Client Sample ID:	PHMHC-WC1	SDG No.:	LB92079
Lab Sample ID:	I6814-01	Matrix:	Solid
Level (low/med):	low	% Solid:	86

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB92079

SDG No.: LB92079

Contract: _____ Lab Code: CHEM

Case No.: LB92079

SAS No.: LB92079

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		12/11/2017	16:36	LB92079
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		12/11/2017	16:43	LB92079
CCV3	Cyanide	0.26	0.25	104	0	90 - 110		12/11/2017	16:47	LB92079



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92079

SDG No.: LB92079

Contract:

Lab Code: CHEM

Case No.: LB92079

SAS No.: LB92079

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00082	+/-0.005	U		0.005		12/11/2017	16:36	LB92079



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92079

SDG No.: LB92079

Contract:

Lab Code: CHEM

Case No.: LB92079

SAS No.: LB92079

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00087	+/-0.005	U		0.005		12/11/2017	16:36	LB92079
CCB2	Cyanide	0.001	+/-0.005	U		0.005		12/11/2017	16:43	LB92079
CCB3	Cyanide	0.00065	+/-0.005	U		0.005		12/11/2017	16:47	LB92079



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92079

SDG No.: LB92079

Contract: Lab Code: CHEM

Case No.: LB92079

SAS No.: LB92079

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: LB92079

SDG No.: LB92079

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
PB104902BL	Cyanide	SOLID		Batch Number:		PB104902		Prep Date:	12/11/2017	
		0.038	<0.24	J		0.24		12/11/2017	16:36	LB92079
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB104903BL	Cyanide	WATER		Batch Number:		PB104903		Prep Date:	12/11/2017	
		0	<0.005	U		0.005		12/11/2017	16:43	LB92079



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92079 level: low sdg no.: LB92079
contract: lab code: CHEM case no.: LB92079 sas no.: LB92079
matrix: Solid sample id: I6813-01 client id: Soil-CuttingsMS
Percent Solids for Sample: 76.1 Spiked ID: I6813-01MS Percent Solids for Spike Sample: 76.1

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2		0.17	J	2.5	73	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92079 level: low sdg no.: LB92079
contract: lab code: CHEM case no.: LB92079 sas no.: LB92079
matrix: Solid sample id: I6813-01 client id: Soil-CuttingsMSD
Percent Solids for Sample: 76.1 Spiked ID: I6813-01MSD Percent Solids for Spike Sample: 76.1

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.17	J	2.6	74	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92079 level: low sdg no.: LB92079
contract: lab code: CHEM case no.: LB92079 sas no.: LB92079
matrix: WATER sample id: I6813-03 client id: Drill-Cutting-SpoilsMS
Percent Solids for Sample: 0 Spiked ID: I6813-03MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.027		0.003	J	0.04	60	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92079 level: low sdg no.: LB92079
contract: lab code: CHEM case no.: LB92079 sas no.: LB92079
matrix: WATER sample id: I6813-03 client id: Drill-Cutting-SpoilsMSD
Percent Solids for Sample: 0 Spiked ID: I6813-03MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.028		0.003	J	0.04	63	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92079 **Level:** LOW **SDG No.:** LB92079
Contract: **Lab Code:** CHEM **Case No.:** LB92079 **SAS No.:** LB92079
Matrix: Solid **Sample ID:** I6813-01 **Client ID:** Soil-CuttingsDUP
Percent Solids for Sample: 76.1 **Duplicate ID** I6813-01DUP **Percent Solids for Spike Sample:** 76.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.17	J	0.18	J	6		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92079 **Level:** LOW **SDG No.:** LB92079
Contract: **Lab Code:** CHEM **Case No.:** LB92079 **SAS No.:** LB92079
Matrix: Solid **Sample ID:** I6813-01MS **Client ID:** Soil-CuttingsMSD
Percent Solids for Sample: 76.1 **Duplicate ID** I6813-01MSD **Percent Solids for Spike Sample:** 76.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2		2.1		5		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92079 **Level:** LOW **SDG No.:** LB92079
Contract: **Lab Code:** CHEM **Case No.:** LB92079 **SAS No.:** LB92079
Matrix: WATER **Sample ID:** I6813-03 **Client ID:** Drill-Cutting-SpoilsDUP
Percent Solids for Sample: 0 **Duplicate ID** I6813-03DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.003	J	0.0027	U	200.0	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92079 **Level:** LOW **SDG No.:** LB92079
Contract: **Lab Code:** CHEM **Case No.:** LB92079 **SAS No.:** LB92079
Matrix: WATER **Sample ID:** I6813-03MS **Client ID:** Drill-Cutting-SpoilsMSD
Percent Solids for Sample: 0 **Duplicate ID** I6813-03MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.027		0.028		4		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92079

SDG No.: LB92079

Contract:

Lab Code: CHEM

Case No.: LB92079

SAS No.: LB92079

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104902BS Cyanide	mg/Kg	4.9	4.9		100	85 - 115	



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92079

SDG No.: LB92079

Contract:

Lab Code: CHEM

Case No.: LB92079

SAS No.: LB92079

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104903BS Cyanide	mg/L	0.1	0.1		100	85 - 115	