

Daily Analysis Runlog For Sequence/QC Batch ID # LB87371

Review By		Review On				
SubDirectory		LB87371		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP54826,WP54827,WP54828,WP54829,WP54830,WP54831,WP54832,WP54833				
ICV Standard		W1540				
CCV Standard		WP54835				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP54834,WP51626,WP51276				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/10/17 13:42		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/10/17 13:42		OK
3	10PPBCN	10PPBCN	CAL3	05/10/17 13:42		OK
4	50PPBCN	50PPBCN	CAL4	05/10/17 13:42		OK
5	100PPBCN	100PPBCN	CAL5	05/10/17 13:42		OK
6	250PPBCN	250PPBCN	CAL6	05/10/17 13:42		OK
7	500PPBCN	500PPBCN	CAL7	05/10/17 13:42		OK
8	ICV1	ICV1	ICV	05/10/17 14:53		OK
9	ICB1	ICB1	ICB	05/10/17 14:53		OK
10	CCV1	CCV1	CCV	05/10/17 14:53		OK
11	CCB1	CCB1	CCB	05/10/17 14:53		OK
12	PB98853BL	PB98853BL	MB	05/10/17 14:53		OK
13	PB98853BS	PB98853BS	LCS	05/10/17 14:53		OK
14	LOWPB98853	LOWPB98853	SAM	05/10/17 14:53		OK
15	HIGHPB98853	HIGHPB98853	SAM	05/10/17 14:53		OK
16	I3059-01	JC-SWITCH-DRUM-3	SAM	05/10/17 14:53		OK
17	I3059-01DUP	JC-SWITCH-DRUM-3	DUP	05/10/17 14:53		OK
18	I3059-01MS	JC-SWITCH-DRUM-3	MS	05/10/17 14:53		OK
19	I3059-01MSD	JC-SWITCH-DRUM-3	MSD	05/10/17 14:56		OK
20	CCV2	CCV2	CCV	05/10/17 14:56		OK
21	CCB2	CCB2	CCB	05/10/17 14:56		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB87371	Date Received:	
Client Sample ID:	HIGHPB98853	SDG No.:	LB87371
Lab Sample ID:	HIGHPB98853	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		05/10/2017	9012B

Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87371	Date Received:	5/9/2017 12:00:00 AM
Client Sample ID:	JC-SWITCH-DRUM-SPILL(COMP)	SDG No.:	LB87371
Lab Sample ID:	I3059-01	Matrix:	Solid
Level (low/med):	low	% Solid:	83.7

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		0.29	mg/Kg	05/10/2017	05/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB87371	Date Received:	
Client Sample ID:	LOWPB98853	SDG No.:	LB87371
Lab Sample ID:	LOWPB98853	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	0.0091		1	0.003		0.005	mg/L		05/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB87371	Date Received:	
Client Sample ID:	LOWPB98853	SDG No.:	LB87371
Lab Sample ID:	LOWPB98853	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: LB87371

SDG No.: LB87371

Contract: _____ Lab Code: CHEM

Case No.: LB87371

SAS No.: LB87371

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	0.095	0.099	96	0	85 - 115		05/10/2017	14:53	LB87371



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87371

SDG No.: LB87371

Contract: _____ Lab Code: CHEM

Case No.: LB87371

SAS No.: LB87371

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	0.25	0.25	100	0	90 - 110		05/10/2017	14:53	LB87371
CCV2	Cyanide	0.27	0.25	108	0	90 - 110		05/10/2017	14:56	LB87371



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87371 **SDG No.:** LB87371
Contract: **Lab Code:** CHEM **Case No.:** LB87371 **SAS No.:** LB87371

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00091	+/-0.005	U		0.005		05/10/2017	14:53	LB87371



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87371

SDG No.: LB87371

Contract:

Lab Code: CHEM

Case No.: LB87371

SAS No.: LB87371

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00062	+/-0.005	U		0.005		05/10/2017	14:53	LB87371
CCB2	Cyanide	-0.0012	+/-0.005	U		0.005		05/10/2017	14:56	LB87371



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87371

SDG No.: LB87371

Contract: Lab Code: CHEM

Case No.: LB87371

SAS No.: LB87371

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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- 3b -
PREPARATION BLANK SUMMARY

Client: LB87371

SDG No.: LB87371

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
PB98853BL	Cyanide	SOLID -0.071	<0.25	Batch Number: U		PB98853 0.25		Prep Date: 05/10/2017	05/10/2017 14:53	LB87371

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- 5a -
MATRIX SPIKE SUMMARY

client: LB87371 level: low sdg no.: LB87371
contract: lab code: CHEM case no.: LB87371 sas no.: LB87371
matrix: Solid sample id: I3059-01 client id: JC-SWITCH-DRUM-SPILL(COMP)MS
Percent Solids for Sample: 83.7 Spiked ID: I3059-01MS Percent Solids for Spike Sample: 83.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	0.84		0.12	J	2.3	31	*	

GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB87371 level: low sdg no.: LB87371
contract: lab code: CHEM case no.: LB87371 sas no.: LB87371
matrix: Solid sample id: I3059-01 client id: JC-SWITCH-DRUM-SPILL(COMP)MSD
Percent Solids for Sample: 83.7 Spiked ID: I3059-01MSD Percent Solids for Spike Sample: 83.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	0.89		0.12	J	2.3	33	*	

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB87371 **Level:** LOW **SDG No.:** LB87371
Contract: **Lab Code:** CHEM **Case No.:** LB87371 **SAS No.:** LB87371
Matrix: Solid **Sample ID:** I3059-01 **Client ID:** JC-SWITCH-DRUM-SPILL(COMP)DUP
Percent Solids for Sample: 83.7 **Duplicate ID** I3059-01DUP **Percent Solids for Spike Sample:** 83.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.12	J	0.12	J	0		

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB87371 **Level:** LOW **SDG No.:** LB87371
Contract: **Lab Code:** CHEM **Case No.:** LB87371 **SAS No.:** LB87371
Matrix: Solid **Sample ID:** I3059-01MS **Client ID:** JC-SWITCH-DRUM-SPILL(COMP)MSD
Percent Solids for Sample: 83.7 **Duplicate ID** I3059-01MSD **Percent Solids for Spike Sample:** 83.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.84		0.89		6		



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- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87371

SDG No.: LB87371

Contract:

Lab Code: CHEM

Case No.: LB87371

SAS No.: LB87371

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB98853BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	