

Daily Analysis Runlog For Sequence/QC Batch ID # LB89370

Review By		Review On				
SubDirectory		LB89370		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57113,WP57113,WP57114,WP57115,WP57116,WP57117,WP5118,WP57119,WP57120				
ICV Standard		W1541				
CCV Standard		WP57100				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57098,WP55355,WP55836				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	08/09/17 11:35		OK
2	5.0PPBCN	5.0PPBCN	CAL2	08/09/17 11:35		OK
3	10PPBCN	10PPBCN	CAL3	08/09/17 11:35		OK
4	50PPBCN	50PPBCN	CAL4	08/09/17 11:35		OK
5	100PPBCN	100PPBCN	CAL5	08/09/17 11:35		OK
6	250PPBCN	250PPBCN	CAL6	08/09/17 11:35		OK
7	500PPBCN	500PPBCN	CAL7	08/09/17 11:35		OK
8	ICV1	ICV1	ICV	08/09/17 14:25		OK
9	ICB1	ICB1	ICB	08/09/17 14:25		OK
10	CCV1	CCV1	CCV	08/09/17 14:25		OK
11	CCB1	CCB1	CCB	08/09/17 14:25		OK
12	PB101382BL	PB101382BL	MB	08/09/17 14:25		OK
13	PB101382BS	PB101382BS	LCS	08/09/17 14:25		OK
14	LOWPB101382	LOWPB101382	SAM	08/09/17 14:25		OK
15	HIGHPB101382	HIGHPB101382	SAM	08/09/17 14:25		OK
16	I4666-01	RO-124019-72-12014	SAM	08/09/17 14:25		OK
17	I4666-01DUP	RO-124019-72-12014	DUP	08/09/17 14:25		OK
18	I4666-01MS	RO-124019-72-12014	MS	08/09/17 14:25		OK
19	I4666-01MSD	RO-124019-72-12014	MSD	08/09/17 14:32		OK
20	DOC-1	DOC-1	LCS	08/09/17 14:32		OK
21	DOC-2	DOC-2	LCS	08/09/17 14:32		OK



Instrument ID : KONELAB

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

Daily Analysis Runlog For Sequence/QC Batch ID # LB89370

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SubDirectory		Test : Cyanide				
LB89370						
STD. NAME		STD REF.#				
ICAL Standard		WP57113,WP57113,WP57114,WP57115,WP57116,WP57117,WP5118,WP57119,WP57120				
ICV Standard		W1541				
CCV Standard		WP57100				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57098,WP55355,WP55836				
22	CCV2	CCV2	CCV	08/09/17 14:32		OK
23	CCB2	CCB2	CCB	08/09/17 14:32		OK
24	DOC-3	DOC-3	LCS	08/09/17 14:32		OK
25	DOC-4	DOC-4	LCS	08/09/17 14:32		OK
26	I4655-03	TP7DEL-WC1	SAM	08/09/17 14:32		OK
27	CCV3	CCV3	CCV	08/09/17 14:32		OK
28	CCB3	CCB3	CCB	08/09/17 14:32		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB89370	Date Received:	
Client Sample ID:	HIGHPB101382	SDG No.:	LB89370
Lab Sample ID:	HIGHPB101382	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		08/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/7/2017 12:00:00 AM
Project:	LB89370	Date Received:	8/7/2017 12:00:00 AM
Client Sample ID:	TP7DEL-WC1	SDG No.:	LB89370
Lab Sample ID:	I4655-03	Matrix:	Solid
Level (low/med):	low	% Solid:	80.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.098	J	1	0.04		0.31	mg/Kg	08/08/2017	08/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/7/2017 12:00:00 AM
Project:	LB89370	Date Received:	8/7/2017 12:00:00 AM
Client Sample ID:	RO-124019-72-12014	SDG No.:	LB89370
Lab Sample ID:	I4666-01	Matrix:	Solid
Level (low/med):	low	% Solid:	94.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0015	U	1	0.034		0.26	mg/Kg	08/09/2017	08/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB89370	Date Received:	
Client Sample ID:	LOWPB101382	SDG No.:	LB89370
Lab Sample ID:	LOWPB101382	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	0.0092		1	0.003		0.005	mg/L		08/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB89370	Date Received:	
Client Sample ID:	LOWPB101382	SDG No.:	LB89370
Lab Sample ID:	LOWPB101382	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

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89370

SDG No.: LB89370

Contract: _____ Lab Code: CHEM

Case No.: LB89370

SAS No.: LB89370

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		08/09/2017	14:25	LB89370
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		08/09/2017	14:32	LB89370
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		08/09/2017	14:32	LB89370



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89370 **SDG No.:** LB89370
Contract: **Lab Code:** CHEM **Case No.:** LB89370 **SAS No.:** LB89370

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		08/09/2017	14:25	LB89370

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00025	+/-0.005	U		0.005		08/09/2017	14:25	LB89370
CCB2	Cyanide	-0.00019	+/-0.005	U		0.005		08/09/2017	14:32	LB89370
CCB3	Cyanide	0.00014	+/-0.005	U		0.005		08/09/2017	14:32	LB89370



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89370

SDG No.: LB89370

Contract: Lab Code: CHEM

Case No.: LB89370

SAS No.: LB89370

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: LB89370

SDG No.: LB89370

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
PB101382BL		SOLID		Batch Number:		PB101382		Prep Date:	08/09/2017	
	Cyanide	-0.024	<0.24	U		0.24		08/09/2017	14:25	LB89370



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- 5a -
MATRIX SPIKE SUMMARY

client: LB89370 level: low sdg no.: LB89370
contract: lab code: CHEM case no.: LB89370 sas no.: LB89370
matrix: Solid sample id: I4666-01 client id: RO-124019-72-12014MS
Percent Solids for Sample: 94.5 Spiked ID: I4666-01MS Percent Solids for Spike Sample: 94.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2		0.034	U	2.1	95.2		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB89370 level: low sdg no.: LB89370
contract: lab code: CHEM case no.: LB89370 sas no.: LB89370
matrix: Solid sample id: I4666-01 client id: RO-124019-72-12014MSD
Percent Solids for Sample: 94.5 Spiked ID: I4666-01MSD Percent Solids for Spike Sample: 94.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125		2	0.034	U	2.1	95.2		

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DUPLICATE SAMPLE SUMMARY

Client: LB89370 **Level:** LOW **SDG No.:** LB89370
Contract: **Lab Code:** CHEM **Case No.:** LB89370 **SAS No.:** LB89370
Matrix: Solid **Sample ID:** I4666-01 **Client ID:** RO-124019-72-12014DUP
Percent Solids for Sample: 94.5 **Duplicate ID** I4666-01DUP **Percent Solids for Spike Sample:** 94.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.034	U	-0.03	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB89370 **Level:** LOW **SDG No.:** LB89370
Contract: **Lab Code:** CHEM **Case No.:** LB89370 **SAS No.:** LB89370
Matrix: Solid **Sample ID:** I4666-01MS **Client ID:** RO-124019-72-12014MSD
Percent Solids for Sample: 94.5 **Duplicate ID** I4666-01MSD **Percent Solids for Spike Sample:** 94.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2		2		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89370

SDG No.: LB89370

Contract:

Lab Code: CHEM

Case No.: LB89370

SAS No.: LB89370

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC-1 Cyanide	mg/Kg	0.1	0.097		97	85 - 115	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89370

SDG No.: LB89370

Contract:

Lab Code: CHEM

Case No.: LB89370

SAS No.: LB89370

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC-2 Cyanide	mg/Kg	0.1	0.096		96	85 - 115	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89370

SDG No.: LB89370

Contract:

Lab Code: CHEM

Case No.: LB89370

SAS No.: LB89370

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC-3 Cyanide	mg/Kg	0.1	0.097		97	85 - 115	

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
DOC-4							
Cyanide	mg/Kg	0.1	0.098		98	85 - 115	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89370

SDG No.: LB89370

Contract:

Lab Code: CHEM

Case No.: LB89370

SAS No.: LB89370

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB101382BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	