

Daily Analysis Runlog For Sequence/QC Batch ID # LB87973

Review By		Review On				
SubDirectory		LB87973		Test : Cyanide		

STD. NAME	STD REF.#
ICAL Standard	WP55503,WP55504,WP55505,WP55506,WP55507,WP55508,WP55509,WP55512
ICV Standard	W1541
CCV Standard	WP55511
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP54521
Chk Standard	WP55510,WP51626,WP55355

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/09/17 09:05		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/09/17 09:05		OK
3	10PPBCN	10PPBCN	CAL3	06/09/17 09:05		OK
4	50PPBCN	50PPBCN	CAL4	06/09/17 09:05		OK
5	100PPBCN	100PPBCN	CAL5	06/09/17 09:05		OK
6	250PPBCN	250PPBCN	CAL6	06/09/17 09:05		OK
7	500PPBCN	500PPBCN	CAL7	06/09/17 09:05		OK
8	ICV1	ICV1	ICV	06/09/17 09:39		OK
9	ICB1	ICB1	ICB	06/09/17 09:39		OK
10	CCV1	CCV1	CCV	06/09/17 09:39		OK
11	CCB1	CCB1	CCB	06/09/17 09:39		OK
12	PB99611BL	PB99611BL	MB	06/09/17 09:39		OK
13	PB99611BS	PB99611BS	LCS	06/09/17 09:39		OK
14	LOWPB99611	LOWPB99611	SAM	06/09/17 09:39		OK
15	HIGHPB99611	HIGHPB99611	SAM	06/09/17 09:39		OK
16	I3559-15	BACKFILL-01	SAM	06/09/17 09:39		OK
17	I3559-15DUP	BACKFILL-01DUP	DUP	06/09/17 09:39		OK
18	I3559-15MS	BACKFILL-01MS	MS	06/09/17 10:03		OK
19	I3559-15MSD	BACKFILL-01MSD	MSD	06/09/17 10:03		OK
20	I3563-01	OK-04-060817	SAM	06/09/17 10:03		OK
21	CCV2	CCV2	CCV	06/09/17 10:03		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				
LB87973						
STD. NAME	STD REF.#					
ICAL Standard	WP55503,WP55504,WP55505,WP55506,WP55507,WP55508,WP55509,WP55512					
ICV Standard	W1541					
CCV Standard	WP55511					
ICSA Standard	N/A					
CRI Standard	N/A					
LCS Standard	WP54521					
Chk Standard	WP55510,WP51626,WP55355					
22	CCB2	CCB2	CCB	06/09/17 10:03		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB87973	Date Received:	
Client Sample ID:	HIGHPB99611	SDG No.:	LB87973
Lab Sample ID:	HIGHPB99611	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		06/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/7/2017 12:00:00 AM
Project:	LB87973	Date Received:	6/8/2017 12:00:00 AM
Client Sample ID:	BACKFILL-01	SDG No.:	LB87973
Lab Sample ID:	I3559-15	Matrix:	Solid
Level (low/med):	low	% Solid:	97.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.04	J	1	0.033		0.25	mg/Kg	06/08/2017	06/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/8/2017 12:00:00 AM
Project:	LB87973	Date Received:	6/8/2017 12:00:00 AM
Client Sample ID:	OK-04-060817	SDG No.:	LB87973
Lab Sample ID:	I3563-01	Matrix:	Solid
Level (low/med):	low	% Solid:	94.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.029	U	1	0.034		0.25	mg/Kg	06/08/2017	06/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB87973	Date Received:	
Client Sample ID:	LOWPB99611	SDG No.:	LB87973
Lab Sample ID:	LOWPB99611	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	0.011		1	0.003		0.005	mg/L		06/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB87973	Date Received:	
Client Sample ID:	LOWPB99611	SDG No.:	LB87973
Lab Sample ID:	LOWPB99611	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: LB87973

SDG No.: LB87973

Contract: _____ Lab Code: CHEM

Case No.: LB87973

SAS No.: LB87973

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	0.096	0.099	97	0	85 - 115		06/09/2017	09:39	LB87973



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87973

SDG No.: LB87973

Contract: _____ Lab Code: CHEM

Case No.: LB87973

SAS No.: LB87973

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		06/09/2017	09:39	LB87973
CCV2	Cyanide	0.26	0.25	104	0	90 - 110		06/09/2017	10:03	LB87973



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87973

SDG No.: LB87973

Contract:

Lab Code: CHEM

Case No.: LB87973

SAS No.: LB87973

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00054	+/-0.005	U		0.005		06/09/2017	09:39	LB87973



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87973

SDG No.: LB87973

Contract:

Lab Code: CHEM

Case No.: LB87973

SAS No.: LB87973

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00068	+/-0.005	U		0.005		06/09/2017	09:39	LB87973
CCB2	Cyanide	0.00024	+/-0.005	U		0.005		06/09/2017	10:03	LB87973



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87973

SDG No.: LB87973

Contract: Lab Code: CHEM

Case No.: LB87973

SAS No.: LB87973

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: LB87973

SDG No.: LB87973

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
PB99611BL	Cyanide	SOLID 0.024	<0.25	Batch Number: U		PB99611 0.25		Prep Date: 06/09/2017	06/08/2017 09:39	LB87973



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB87973 level: low sdg no.: LB87973
contract: lab code: CHEM case no.: LB87973 sas no.: LB87973
matrix: Solid sample id: I3559-15 client id: BACKFILL-01MS
Percent Solids for Sample: 97.5 Spiked ID: I3559-15MS Percent Solids for Spike Sample: 97.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.04	J	2	88		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB87973 level: low sdg no.: LB87973
contract: lab code: CHEM case no.: LB87973 sas no.: LB87973
matrix: Solid sample id: I3559-15 client id: BACKFILL-01MSD
Percent Solids for Sample: 97.5 Spiked ID: I3559-15MSD Percent Solids for Spike Sample: 97.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.04	J	2	88		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB87973 **Level:** LOW **SDG No.:** LB87973
Contract: **Lab Code:** CHEM **Case No.:** LB87973 **SAS No.:** LB87973
Matrix: Solid **Sample ID:** I3559-15 **Client ID:** BACKFILL-01DUP
Percent Solids for Sample: 97.5 **Duplicate ID** I3559-15DUP **Percent Solids for Spike Sample:** 97.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.04	J	0.17	J	124	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB87973 **Level:** LOW **SDG No.:** LB87973
Contract: **Lab Code:** CHEM **Case No.:** LB87973 **SAS No.:** LB87973
Matrix: Solid **Sample ID:** I3559-15MS **Client ID:** BACKFILL-01MSD
Percent Solids for Sample: 97.5 **Duplicate ID** I3559-15MSD **Percent Solids for Spike Sample:** 97.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.8		1.8		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87973

SDG No.: LB87973

Contract:

Lab Code: CHEM

Case No.: LB87973

SAS No.: LB87973

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB99611BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	