

Daily Analysis Runlog For Sequence/QC Batch ID # LB90218

Review By		Review On				
SubDirectory		LB90218		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58141,WP58142,WP58143,WP58144,WP58145,WP58146,WP58139				
ICV Standard		WP58149				
CCV Standard		WP58147				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58148,WP55355,WP55836				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	09/21/17 10:35		OK
2	5.0PPBCN	5.0PPBCN	CAL2	09/21/17 10:35		OK
3	10PPBCN	10PPBCN	CAL3	09/21/17 10:35		OK
4	50PPBCN	50PPBCN	CAL4	09/21/17 10:35		OK
5	100PPBCN	100PPBCN	CAL5	09/21/17 10:35		OK
6	250PPBCN	250PPBCN	CAL6	09/21/17 10:35		OK
7	500PPBCN	500PPBCN	CAL7	09/21/17 10:35		OK
8	ICV1	ICV1	ICV	09/21/17 11:18		OK
9	ICB1	ICB1	ICB	09/21/17 11:18		OK
10	CCV1	CCV1	CCV	09/21/17 11:18		OK
11	CCB1	CCB1	CCB	09/21/17 11:19		OK
12	PB102461BL	PB102461BL	MB	09/21/17 11:19		OK
13	PB102461BS	PB102461BS	LCS	09/21/17 11:19		OK
14	LOWPB102461	LOWPB102461	SAM	09/21/17 11:26		OK
15	MIDPB102461	MIDPB102461	SAM	09/21/17 11:26		OK
16	I5301-02	20170607-COMP-D	SAM	09/21/17 11:26		OK
17	I5301-03	20170604-COMP-A	SAM	09/21/17 11:26		OK
18	CCV2	CCV2	CCV	09/21/17 11:34		OK
19	CCB2	CCB2	CCB	09/21/17 11:34		OK
20	I5301-04	20170606-COMP-C	SAM	09/21/17 11:34		OK
21	I5301-05	20170608-COMP-A	SAM	09/21/17 11:34		OK

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SubDirectory		LB90218		Test : Cyanide		
STD. NAME		STD REF.#				
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ICV Standard		WP58149				
CCV Standard		WP58147				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58148,WP55355,WP55836				
22	I5301-06	20170609-COMP-A	SAM	09/21/17 11:34		OK
23	I5301-08	20170605-COMP-B	SAM	09/21/17 11:34		OK
24	I5301-09	20170607-COMP-D	SAM	09/21/17 11:34		OK
25	I5301-10	20170604-COMP-A	SAM	09/21/17 11:34		OK
26	I5301-11	20170606-COMP-C	SAM	09/21/17 11:34		OK
27	I5301-12	20170608-COMP-A	SAM	09/21/17 11:34		OK
28	I5301-13	20170609-COMP-A	SAM	09/21/17 11:34		OK
29	CCV3	CCV3	CCV	09/21/17 11:37		OK
30	CCB3	CCB3	CCB	09/21/17 11:37		OK
31	I5301-01	20170605-COMP-B	SAM	09/21/17 11:57		OK
32	I5301-01DUP	20170605-COMP-BD	DUP	09/21/17 11:57		OK
33	I5301-01MS	20170605-COMP-BM	MS	09/21/17 11:57		OK
34	I5301-01MSD	20170605-COMP-BM	MSD	09/21/17 11:57		OK
35	CCV4	CCV4	CCV	09/21/17 11:57		OK
36	CCB4	CCB4	CCB	09/21/17 11:57		OK



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Report of Analysis

Client:		Date Collected:	9/14/2017 12:00:00 AM
Project:	LB90218	Date Received:	9/19/2017 12:00:00 AM
Client Sample ID:	20170605-COMP-B	SDG No.:	LB90218
Lab Sample ID:	I5301-01	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	U	1	0.003		0.005	mg/L	09/20/2017	09/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/14/2017 12:00:00 AM
Project:	LB90218	Date Received:	9/19/2017 12:00:00 AM
Client Sample ID:	20170607-COMP-D	SDG No.:	LB90218
Lab Sample ID:	I5301-02	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	-0.00059	U	1	0.003		0.005	mg/L	09/20/2017	09/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/14/2017 12:00:00 AM
Project:	LB90218	Date Received:	9/19/2017 12:00:00 AM
Client Sample ID:	20170604-COMP-A	SDG No.:	LB90218
Lab Sample ID:	I5301-03	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	-0.0006	U	1	0.003		0.005	mg/L	09/20/2017	09/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/14/2017 12:00:00 AM
Project:	LB90218	Date Received:	9/19/2017 12:00:00 AM
Client Sample ID:	20170606-COMP-C	SDG No.:	LB90218
Lab Sample ID:	I5301-04	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	-0.00022	U	1	0.003		0.005	mg/L	09/20/2017	09/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/15/2017 12:00:00 AM
Project:	LB90218	Date Received:	9/19/2017 12:00:00 AM
Client Sample ID:	20170608-COMP-A	SDG No.:	LB90218
Lab Sample ID:	I5301-05	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	U	1	0.003		0.005	mg/L	09/20/2017	09/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/15/2017 12:00:00 AM
Project:	LB90218	Date Received:	9/19/2017 12:00:00 AM
Client Sample ID:	20170609-COMP-A	SDG No.:	LB90218
Lab Sample ID:	I5301-06	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	0.00012	U	1	0.003		0.005	mg/L	09/20/2017	09/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/14/2017 12:00:00 AM
Project:	LB90218	Date Received:	9/19/2017 12:00:00 AM
Client Sample ID:	20170605-COMP-B	SDG No.:	LB90218
Lab Sample ID:	I5301-08	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	-0.00056	U	1	0.003		0.005	mg/L	09/20/2017	09/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/14/2017 12:00:00 AM
Project:	LB90218	Date Received:	9/19/2017 12:00:00 AM
Client Sample ID:	20170607-COMP-D	SDG No.:	LB90218
Lab Sample ID:	I5301-09	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	-0.00099	U	1	0.003		0.005	mg/L	09/20/2017	09/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/14/2017 12:00:00 AM
Project:	LB90218	Date Received:	9/19/2017 12:00:00 AM
Client Sample ID:	20170604-COMP-A	SDG No.:	LB90218
Lab Sample ID:	I5301-10	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	-0.00071	U	1	0.003		0.005	mg/L	09/20/2017	09/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/14/2017 12:00:00 AM
Project:	LB90218	Date Received:	9/19/2017 12:00:00 AM
Client Sample ID:	20170606-COMP-C	SDG No.:	LB90218
Lab Sample ID:	I5301-11	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	-0.00045	U	1	0.003		0.005	mg/L	09/20/2017	09/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/15/2017 12:00:00 AM
Project:	LB90218	Date Received:	9/19/2017 12:00:00 AM
Client Sample ID:	20170608-COMP-A	SDG No.:	LB90218
Lab Sample ID:	I5301-12	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	-0.00064	U	1	0.003		0.005	mg/L	09/20/2017	09/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/15/2017 12:00:00 AM
Project:	LB90218	Date Received:	9/19/2017 12:00:00 AM
Client Sample ID:	20170609-COMP-A	SDG No.:	LB90218
Lab Sample ID:	I5301-13	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	-0.0011	U	1	0.003		0.005	mg/L	09/20/2017	09/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB90218	Date Received:	
Client Sample ID:	LOWPB102461	SDG No.:	LB90218
Lab Sample ID:	LOWPB102461	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	0.0093		1	0.003		0.005	mg/L		09/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB90218	Date Received:	
Client Sample ID:	MIDPB102461	SDG No.:	LB90218
Lab Sample ID:	MIDPB102461	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	0.48		1	0.003		0.005	mg/L		09/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB90218	Date Received:	
Client Sample ID:	MIDPB102461	SDG No.:	LB90218
Lab Sample ID:	MIDPB102461	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

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Cyanide	0.095	0.099	96	0	85 - 115		09/21/2017	11:18	LB90218



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90218

SDG No.: LB90218

Contract: _____ Lab Code: CHEM

Case No.: LB90218

SAS No.: LB90218

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		09/21/2017	11:18	LB90218
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		09/21/2017	11:34	LB90218
CCV3	Cyanide	0.26	0.25	104	0	90 - 110		09/21/2017	11:37	LB90218
CCV4	Cyanide	0.26	0.25	104	0	90 - 110		09/21/2017	11:57	LB90218



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90218 **SDG No.:** LB90218
Contract: **Lab Code:** CHEM **Case No.:** LB90218 **SAS No.:** LB90218

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00035	+/-0.005	U		0.005		09/21/2017	11:18	LB90218



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90218

SDG No.: LB90218

Contract:

Lab Code: CHEM

Case No.: LB90218

SAS No.: LB90218

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.0001	+/-0.005	U		0.005		09/21/2017	11:19	LB90218
CCB2	Cyanide	-0.00025	+/-0.005	U		0.005		09/21/2017	11:34	LB90218
CCB3	Cyanide	0.00012	+/-0.005	U		0.005		09/21/2017	11:37	LB90218
CCB4	Cyanide	-0.00033	+/-0.005	U		0.005		09/21/2017	11:57	LB90218



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90218

SDG No.: LB90218

Contract: Lab Code: CHEM

Case No.: LB90218

SAS No.: LB90218

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: LB90218

SDG No.: LB90218

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB102461BL	Cyanide	WATER -0.00081	<0.005	Batch Number: U		PB102461 0.005		Prep Date: 09/21/2017	09/20/2017 11:19	LB90218



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90218 level: low sdg no.: LB90218
contract: lab code: CHEM case no.: LB90218 sas no.: LB90218
matrix: WATER sample id: I5301-01 client id: 20170605-COMP-BMS
Percent Solids for Sample: 0 Spiked ID: I5301-01MS 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	0.034		0.003	U	0.04	85		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90218 level: low sdg no.: LB90218
contract: lab code: CHEM case no.: LB90218 sas no.: LB90218
matrix: WATER sample id: I5301-01 client id: 20170605-COMP-BMSD
Percent Solids for Sample: 0 Spiked ID: I5301-01MSD 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	0.034		0.003	U	0.04	85		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB90218 **Level:** LOW **SDG No.:** LB90218
Contract: **Lab Code:** CHEM **Case No.:** LB90218 **SAS No.:** LB90218
Matrix: WATER **Sample ID:** I5301-01 **Client ID:** 20170605-COMP-BDUP
Percent Solids for Sample: 0 **Duplicate ID** I5301-01DUP **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	U	0.00012	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB90218 **Level:** LOW **SDG No.:** LB90218
Contract: **Lab Code:** CHEM **Case No.:** LB90218 **SAS No.:** LB90218
Matrix: WATER **Sample ID:** I5301-01MS **Client ID:** 20170605-COMP-BMSD
Percent Solids for Sample: 0 **Duplicate ID** I5301-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.034		0.034		0		



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- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90218

SDG No.: LB90218

Contract:

Lab Code: CHEM

Case No.: LB90218

SAS No.: LB90218

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB102461BS Cyanide	mg/L	0.1	0.095		95	85 - 115	