

Daily Analysis Runlog For Sequence/QC Batch ID # LB93900

Review By

SubDirectory

Review On

Test : Cyanide

LB93900

STD. NAME		STD REF.#				
ICAL Standard		WP62688,WP62689,WP62690,WP62691,WP62692,WP62693,WP62694				
ICV Standard		W1542				
CCV Standard		WP62695				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62697,WP59958,WP60878				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/14/18 10:59		OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/14/18 10:59		OK
3	10PPBCN	10PPBCN	CAL3	03/14/18 10:59		OK
4	50PPBCN	50PPBCN	CAL4	03/14/18 10:59		OK
5	100PPBCN	100PPBCN	CAL5	03/14/18 10:59		OK
6	250PPBCN	250PPBCN	CAL6	03/14/18 10:59		OK
7	500PPBCN	500PPBCN	CAL7	03/14/18 10:59		OK
8	ICV1	ICV1	ICV	03/14/18 11:58		OK
9	ICB1	ICB1	ICB	03/14/18 11:58		OK
10	CCV1	CCV1	CCV	03/14/18 11:58		OK
11	CCB1	CCB1	CCB	03/14/18 11:58		OK
12	PB107326BL	PB107326BL	MB	03/14/18 11:58		OK
13	PB107326BS	PB107326BS	LCS	03/14/18 11:58		OK
14	LOWPB107326	LOWPB107326	SAM	03/14/18 11:58		OK
15	HIGHPB107326	HIGHPB107326	SAM	03/14/18 11:58		OK
16	J1749-03	BU-02-031318	SAM	03/14/18 11:58		OK
17	J1749-03DUP	BU-02-031318DUP	DUP	03/14/18 11:58		OK
18	J1749-03MS	BU-02-031318MS	MS	03/14/18 11:58		OK
19	J1749-03MSD	BU-02-031318MSD	MSD	03/14/18 12:05		OK
20	J1754-01	CL-01-031318-A	SAM	03/14/18 12:05		OK
21	J1754-03	CL-01-031318-B	SAM	03/14/18 12:05		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB93900

Review By		Review On				
SubDirectory		LB93900		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP62688,WP62689,WP62690,WP62691,WP62692,WP62693,WP62694				
ICV Standard		W1542				
CCV Standard		WP62695				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62697,WP59958,WP60878				
22	CCV2	CCV2	CCV	03/14/18 12:05		OK
23	CCB2	CCB2	CCB	03/14/18 12:05		OK
24	J1754-05	CL-01-031318-C	SAM	03/14/18 12:05		OK
25	J1754-07	CL-01-031318-D	SAM	03/14/18 12:05		OK
26	J1754-09	CL-01-031318-E	SAM	03/14/18 12:05		OK
27	J1908-01	TP-A	SAM	03/14/18 12:05		OK
28	J1908-05	TP-B	SAM	03/14/18 12:05		OK
29	J1909-01	1-3-RO-COMP	SAM	03/14/18 12:05		OK
30	J1911-02	TP-5A-COMP	SAM	03/14/18 12:13		OK
31	J1911-05	TP-5B-COMP	SAM	03/14/18 12:13		OK
32	J1911-09	TP-13-COMP	SAM	03/14/18 12:13		OK
33	PB107327BL	PB107327BL	MB	03/14/18 12:13		OK
34	CCV3	CCV3	CCV	03/14/18 12:13		OK
35	CCB3	CCB3	CCB	03/14/18 12:13		OK
36	PB107327BS	PB107327BS	LCS	03/14/18 12:13		OK
37	J1910-01	291	SAM	03/14/18 12:13		OK
38	J1911-11	TP-5	SAM	03/14/18 12:13		OK
39	J1911-11DUP	TP-5DUP	DUP	03/14/18 12:13		OK
40	J1911-11MS	TP-5MS	MS	03/14/18 12:13		OK
41	J1911-11MSD	TP-5MSD	MSD	03/14/18 12:17		OK
42	CCV4	CCV4	CCV	03/14/18 12:17		OK
43	CCB4	CCB4	CCB	03/14/18 12:17		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB93900	Date Received:	
Client Sample ID:	HIGHPB107326	SDG No.:	LB93900
Lab Sample ID:	HIGHPB107326	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		03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93900	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	BU-02-031318	SDG No.:	LB93900
Lab Sample ID:	J1749-03	Matrix:	Solid
Level (low/med):	low	% Solid:	86.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.082	J	1	0.037		0.28	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93900	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	CL-01-031318-A	SDG No.:	LB93900
Lab Sample ID:	J1754-01	Matrix:	Solid
Level (low/med):	low	% Solid:	77.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.35		1	0.042		0.32	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93900	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	CL-01-031318-B	SDG No.:	LB93900
Lab Sample ID:	J1754-03	Matrix:	Solid
Level (low/med):	low	% Solid:	88.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.18	J	1	0.037		0.28	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93900	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	CL-01-031318-C	SDG No.:	LB93900
Lab Sample ID:	J1754-05	Matrix:	Solid
Level (low/med):	low	% Solid:	77.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.38		1	0.041		0.31	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93900	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	CL-01-031318-D	SDG No.:	LB93900
Lab Sample ID:	J1754-07	Matrix:	Solid
Level (low/med):	low	% Solid:	92.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.21	J	1	0.034		0.26	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93900	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	CL-01-031318-E	SDG No.:	LB93900
Lab Sample ID:	J1754-09	Matrix:	Solid
Level (low/med):	low	% Solid:	90.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.047	J	1	0.035		0.26	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93900	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	TP-A	SDG No.:	LB93900
Lab Sample ID:	J1908-01	Matrix:	Solid
Level (low/med):	low	% Solid:	91.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.039	J	1	0.035		0.27	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93900	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	TP-B	SDG No.:	LB93900
Lab Sample ID:	J1908-05	Matrix:	Solid
Level (low/med):	low	% Solid:	87.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.099	J	1	0.037		0.28	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93900	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	1-3-RO-COMP	SDG No.:	LB93900
Lab Sample ID:	J1909-01	Matrix:	Solid
Level (low/med):	low	% Solid:	91.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.096	J	1	0.034		0.26	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93900	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	291	SDG No.:	LB93900
Lab Sample ID:	J1910-01	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	0.0013	U	1	0.003		0.005	mg/L	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93900	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	TP-5A-COMP	SDG No.:	LB93900
Lab Sample ID:	J1911-02	Matrix:	Solid
Level (low/med):	low	% Solid:	85

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.031	U	1	0.038		0.29	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93900	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	TP-5B-COMP	SDG No.:	LB93900
Lab Sample ID:	J1911-05	Matrix:	Solid
Level (low/med):	low	% Solid:	84.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.013	U	1	0.037		0.28	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93900	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	TP-13-COMP	SDG No.:	LB93900
Lab Sample ID:	J1911-09	Matrix:	Solid
Level (low/med):	low	% Solid:	90.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.034	U	1	0.035		0.27	mg/Kg	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/13/2018 12:00:00 AM
Project:	LB93900	Date Received:	3/13/2018 12:00:00 AM
Client Sample ID:	TP-5	SDG No.:	LB93900
Lab Sample ID:	J1911-11	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	0.00052	U	1	0.003		0.005	mg/L	03/14/2018	03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93900	Date Received:	
Client Sample ID:	LOWPB107326	SDG No.:	LB93900
Lab Sample ID:	LOWPB107326	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		03/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93900	Date Received:	
Client Sample ID:	LOWPB107326	SDG No.:	LB93900
Lab Sample ID:	LOWPB107326	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: LB93900

SDG No.: LB93900

Contract: _____ Lab Code: CHEM

Case No.: LB93900

SAS No.: LB93900

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Cyanide	0.24	0.25	96		90 - 110		03/14/2018	11:58	lb93900
CCV2	Cyanide	0.24	0.25	96		90 - 110		03/14/2018	12:05	lb93900
CCV3	Cyanide	0.24	0.25	96		90 - 110		03/14/2018	12:13	lb93900
CCV4	Cyanide	0.25	0.25	100		90 - 110		03/14/2018	12:17	lb93900



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93900

SDG No.: LB93900

Contract:

Lab Code: CHEM

Case No.: LB93900

SAS No.: LB93900

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00088	+/-0.005	U		0.005		03/14/2018	11:58	lb93900



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93900

SDG No.: LB93900

Contract:

Lab Code: CHEM

Case No.: LB93900

SAS No.: LB93900

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00094	+/-0.005	U		0.005		03/14/2018	11:58	1b93900
CCB2	Cyanide	0.0007	+/-0.005	U		0.005		03/14/2018	12:05	1b93900
CCB3	Cyanide	0.00048	+/-0.005	U		0.005		03/14/2018	12:13	1b93900
CCB4	Cyanide	0.00062	+/-0.005	U		0.005		03/14/2018	12:17	1b93900



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93900

SDG No.: LB93900

Contract: Lab Code: CHEM

Case No.: LB93900

SAS No.: LB93900

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: LB93900

SDG No.: LB93900

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
PB107326BL	Cyanide	SOLID		Batch Number:		PB107326		Prep Date:	03/14/2018	
		0.025	<0.24	U		0.24		03/14/2018	11:58	lb93900
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB107327BL	Cyanide	WATER		Batch Number:		PB107327		Prep Date:	03/14/2018	
		0.00051	<0.005	U		0.005		03/14/2018	12:13	lb93900



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93900 level: low sdg no.: LB93900
contract: lab code: CHEM case no.: LB93900 sas no.: LB93900
matrix: Solid sample id: J1749-03 client id: BU-02-031318MS
Percent Solids for Sample: 86.6 Spiked ID: J1749-03MS Percent Solids for Spike Sample: 86.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.082	J	2.2	74	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93900 level: low sdg no.: LB93900
contract: lab code: CHEM case no.: LB93900 sas no.: LB93900
matrix: Solid sample id: J1749-03 client id: BU-02-031318MSD
Percent Solids for Sample: 86.6 Spiked ID: J1749-03MSD Percent Solids for Spike Sample: 86.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.082	J	2.3	75		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93900 level: low sdg no.: LB93900
contract: lab code: CHEM case no.: LB93900 sas no.: LB93900
matrix: WATER sample id: J1911-11 client id: TP-5MS
Percent Solids for Sample: 0 Spiked ID: J1911-11MS 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	0.021		0.003	U	0.04	52.5	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93900 level: low sdg no.: LB93900
contract: lab code: CHEM case no.: LB93900 sas no.: LB93900
matrix: WATER sample id: J1911-11 client id: TP-5MSD
Percent Solids for Sample: 0 Spiked ID: J1911-11MSD 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	0.022		0.003	U	0.04	55	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB93900 **Level:** LOW **SDG No.:** LB93900
Contract: **Lab Code:** CHEM **Case No.:** LB93900 **SAS No.:** LB93900
Matrix: Solid **Sample ID:** J1749-03 **Client ID:** BU-02-031318DUP
Percent Solids for Sample: 86.6 **Duplicate ID** J1749-03DUP **Percent Solids for Spike Sample:** 86.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.082	J	0.047	J	54	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB93900 **Level:** LOW **SDG No.:** LB93900
Contract: **Lab Code:** CHEM **Case No.:** LB93900 **SAS No.:** LB93900
Matrix: Solid **Sample ID:** J1749-03MS **Client ID:** BU-02-031318MSD
Percent Solids for Sample: 86.6 **Duplicate ID** J1749-03MSD **Percent Solids for Spike Sample:** 86.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.7		1.8		6		

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93900 **Level:** LOW **SDG No.:** LB93900
Contract: **Lab Code:** CHEM **Case No.:** LB93900 **SAS No.:** LB93900
Matrix: WATER **Sample ID:** J1911-11 **Client ID:** TP-5DUP
Percent Solids for Sample: 0 **Duplicate ID** J1911-11DUP **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	0.00048	U			

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93900 **Level:** LOW **SDG No.:** LB93900
Contract: **Lab Code:** CHEM **Case No.:** LB93900 **SAS No.:** LB93900
Matrix: WATER **Sample ID:** J1911-11MS **Client ID:** TP-5MSD
Percent Solids for Sample: 0 **Duplicate ID** J1911-11MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.021		0.022		5		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93900

SDG No.: LB93900

Contract:

Lab Code: CHEM

Case No.: LB93900

SAS No.: LB93900

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB107326BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	



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- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93900

SDG No.: LB93900

Contract:

Lab Code: CHEM

Case No.: LB93900

SAS No.: LB93900

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB107327BS Cyanide	mg/L	0.1	0.098		98	85 - 115	