

Daily Analysis Runlog For Sequence/QC Batch ID # LB96178

Review By		Review On				
SubDirectory		LB96178		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP65477,WP65478,WP65479,WP65480,WP65481,WP65482,WP65483				
ICV Standard		W1542				
CCV Standard		WP65484				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP65486,WP64695,WP64696				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/21/18 10:00		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/21/18 10:00		OK
3	10PPBCN	10PPBCN	CAL3	06/21/18 10:00		OK
4	50PPBCN	50PPBCN	CAL4	06/21/18 10:00		OK
5	100PPBCN	100PPBCN	CAL5	06/21/18 10:00		OK
6	250PPBCN	250PPBCN	CAL6	06/21/18 10:00		OK
7	500PPBCN	500PPBCN	CAL7	06/21/18 10:00		OK
8	ICV1	ICV1	ICV	06/21/18 12:47		OK
9	ICB1	ICB1	ICB	06/21/18 12:47		OK
10	CCV1	CCV1	CCV	06/21/18 12:47		OK
11	CCB1	CCB1	CCB	06/21/18 12:48		OK
12	PB110475BL	PB110475BL	MB	06/21/18 12:48		OK
13	PB110475BS	PB110475BS	LCS	06/21/18 12:48		OK
14	LOWPB110475	LOWPB110475	SAM	06/21/18 12:48		OK
15	HIGHPB110475	HIGHPB110475	SAM	06/21/18 12:48		OK
16	J3246-03	OK-01-062018	SAM	06/21/18 12:48		OK
17	J3246-03DUP	OK-01-062018DUP	DUP	06/21/18 12:48		OK
18	J3246-03MS	OK-01-062018MS	MS	06/21/18 12:48		OK
19	J3246-03MSD	OK-01-062018MSD	MSD	06/21/18 12:55		OK
20	J3622-01	275-137-282-284	SAM	06/21/18 12:55		OK
21	J3622-04	SP-A	SAM	06/21/18 12:55		OK

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SubDirectory		LB96178		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP65477,WP65478,WP65479,WP65480,WP65481,WP65482,WP65483				
ICV Standard		W1542				
CCV Standard		WP65484				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP65486,WP64695,WP64696				
22	CCV2	CCV2	CCV	06/21/18 12:55		OK
23	CCB2	CCB2	CCB	06/21/18 12:55		OK
24	J3622-08	SP-B	SAM	06/21/18 12:55		OK
25	J3622-12	SP-C	SAM	06/21/18 12:55		OK
26	J3622-16	SP-D	SAM	06/21/18 12:55		OK
27	J3626-02	A-1	SAM	06/21/18 12:55		OK
28	J3628-01	AOC11-01	SAM	06/21/18 12:55		OK
29	PB110451BL	PB110451BL	MB	06/21/18 12:55		OK
30	PB110451BS	PB110451BS	LCS	06/21/18 13:03		OK
31	J3570-05	20180375-COMPOS	SAM	06/21/18 13:03		OK
32	J3570-06	20180376-COMPOS	SAM	06/21/18 13:03		OK
33	J3570-06DUP	20180376-COMPOS	DUP	06/21/18 13:03		OK
34	CCV3	CCV3	CCV	06/21/18 13:03		OK
35	CCB3	CCB3	CCB	06/21/18 13:03		OK
36	J3570-13	20180376-COMPOS	SAM	06/21/18 13:03		OK
37	J3627-35	GROUND-WATER	SAM	06/21/18 13:03		OK
38	J3570-06MS	20180376-COMPOS	MS	06/21/18 13:24		OK
39	J3570-06MSD	20180376-COMPOS	MSD	06/21/18 13:24		OK
40	CCV4	CCV4	CCV	06/21/18 13:24		OK
41	CCB4	CCB4	CCB	06/21/18 13:24		OK
42	J3570-12	20180375-COMPOS	SAM	06/21/18 14:02		OK
43	CCV5	CCV5	CCV	06/21/18 14:02		OK



Instrument ID : KONELAB

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

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Review By		Review On				
SubDirectory		LB96178		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP65477,WP65478,WP65479,WP65480,WP65481,WP65482,WP65483				
ICV Standard		W1542				
CCV Standard		WP65484				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP65486,WP64695,WP64696				
44	CCB5	CCB5	CCB	06/21/18 14:02		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB96178	Date Received:	
Client Sample ID:	HIGHPB110475	SDG No.:	LB96178
Lab Sample ID:	HIGHPB110475	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	0.5		1	0.003		0.005	mg/L		06/21/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/20/2018 12:00:00 AM
Project:	LB96178	Date Received:	6/20/2018 12:00:00 AM
Client Sample ID:	OK-01-062018	SDG No.:	LB96178
Lab Sample ID:	J3246-03	Matrix:	Solid
Level (low/med):	low	% Solid:	95.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.063	J	1	0.033		0.25	mg/Kg	06/21/2018	06/21/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/15/2018 12:00:00 AM
Project:	LB96178	Date Received:	6/15/2018 12:00:00 AM
Client Sample ID:	20180375-COMPOSITE-CS-1A-ELUTRIATE	SDG No.:	LB96178
Lab Sample ID:	J3570-05	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	0.0049	J	1	0.003		0.005	mg/L	06/20/2018	06/21/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/15/2018 12:00:00 AM
Project:	LB96178	Date Received:	6/15/2018 12:00:00 AM
Client Sample ID:	20180376-COMPOSITE-CS-1B-ELUTRIATE	SDG No.:	LB96178
Lab Sample ID:	J3570-06	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	0.0024	U	1	0.003		0.005	mg/L	06/20/2018	06/21/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/15/2018 12:00:00 AM
Project:	LB96178	Date Received:	6/15/2018 12:00:00 AM
Client Sample ID:	20180375-COMPOSITE-CS-1A-ELUTRIATE	SDG No.:	LB96178
Lab Sample ID:	J3570-12	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	0.0024	U	1	0.003		0.005	mg/L	06/20/2018	06/21/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/15/2018 12:00:00 AM
Project:	LB96178	Date Received:	6/15/2018 12:00:00 AM
Client Sample ID:	20180376-COMPOSITE-CS-1B-ELUTRIATE	SDG No.:	LB96178
Lab Sample ID:	J3570-13	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	0.0036	J	1	0.003		0.005	mg/L	06/20/2018	06/21/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/20/2018 12:00:00 AM
Project:	LB96178	Date Received:	6/20/2018 12:00:00 AM
Client Sample ID:	275-137-282-284	SDG No.:	LB96178
Lab Sample ID:	J3622-01	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0093	U	1	0.032		0.25	mg/Kg	06/21/2018	06/21/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/20/2018 12:00:00 AM
Project:	LB96178	Date Received:	6/20/2018 12:00:00 AM
Client Sample ID:	SP-A	SDG No.:	LB96178
Lab Sample ID:	J3622-04	Matrix:	Solid
Level (low/med):	low	% Solid:	90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.029	U	1	0.035		0.27	mg/Kg	06/21/2018	06/21/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/20/2018 12:00:00 AM
Project:	LB96178	Date Received:	6/20/2018 12:00:00 AM
Client Sample ID:	SP-B	SDG No.:	LB96178
Lab Sample ID:	J3622-08	Matrix:	Solid
Level (low/med):	low	% Solid:	93.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.012	U	1	0.034		0.26	mg/Kg	06/21/2018	06/21/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/20/2018 12:00:00 AM
Project:	LB96178	Date Received:	6/20/2018 12:00:00 AM
Client Sample ID:	SP-C	SDG No.:	LB96178
Lab Sample ID:	J3622-12	Matrix:	Solid
Level (low/med):	low	% Solid:	91.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0024	U	1	0.034		0.26	mg/Kg	06/21/2018	06/21/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/20/2018 12:00:00 AM
Project:	LB96178	Date Received:	6/20/2018 12:00:00 AM
Client Sample ID:	SP-D	SDG No.:	LB96178
Lab Sample ID:	J3622-16	Matrix:	Solid
Level (low/med):	low	% Solid:	93.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.016	U	1	0.033		0.25	mg/Kg	06/21/2018	06/21/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96178	Date Received:	6/20/2018 12:00:00 AM
Client Sample ID:	A-1	SDG No.:	LB96178
Lab Sample ID:	J3626-02	Matrix:	Solid
Level (low/med):	low	% Solid:	88.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.063	J	1	0.036		0.27	mg/Kg	06/21/2018	06/21/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/20/2018 12:00:00 AM
Project:	LB96178	Date Received:	6/20/2018 12:00:00 AM
Client Sample ID:	GROUND-WATER	SDG No.:	LB96178
Lab Sample ID:	J3627-35	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	0.0015	U	1	0.003		0.005	mg/L	06/20/2018	06/21/2018	9012B

Report of Analysis

Client:		Date Collected:	6/18/2018 12:00:00 AM
Project:	LB96178	Date Received:	6/20/2018 12:00:00 AM
Client Sample ID:	AOC11-01	SDG No.:	LB96178
Lab Sample ID:	J3628-01	Matrix:	Solid
Level (low/med):	low	% Solid:	78.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.04		0.3	mg/Kg	06/21/2018	06/21/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB96178	Date Received:	
Client Sample ID:	LOWPB110475	SDG No.:	LB96178
Lab Sample ID:	LOWPB110475	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	0.01		1	0.003		0.005	mg/L		06/21/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB96178	Date Received:	
Client Sample ID:	LOWPB110475	SDG No.:	LB96178
Lab Sample ID:	LOWPB110475	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: LB96178

SDG No.: LB96178

Contract: _____ Lab Code: CHEM

Case No.: LB96178

SAS No.: LB96178

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	0.25	0.25	100		90 - 110		06/21/2018	12:47	LB96178
CCV2	Cyanide	0.25	0.25	100		90 - 110		06/21/2018	12:55	LB96178
CCV3	Cyanide	0.24	0.25	96		90 - 110		06/21/2018	13:03	LB96178
CCV4	Cyanide	0.26	0.25	104		90 - 110		06/21/2018	13:24	LB96178
CCV5	Cyanide	0.26	0.25	104		90 - 110		06/21/2018	14:02	LB96178



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96178

SDG No.: LB96178

Contract:

Lab Code: CHEM

Case No.: LB96178

SAS No.: LB96178

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00049	+/-0.005	U		0.005		06/21/2018	12:47	LB96178

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00027	+/-0.005	U		0.005		06/21/2018	12:48	LB96178
CCB2	Cyanide	-0.0001	+/-0.005	U		0.005		06/21/2018	12:55	LB96178
CCB3	Cyanide	0.0001	+/-0.005	U		0.005		06/21/2018	13:03	LB96178
CCB4	Cyanide	0.00017	+/-0.005	U		0.005		06/21/2018	13:24	LB96178
CCB5	Cyanide	-0.00081	+/-0.005	U		0.005		06/21/2018	14:02	LB96178



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96178

SDG No.: LB96178

Contract: Lab Code: CHEM

Case No.: LB96178

SAS No.: LB96178

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: LB96178

SDG No.: LB96178

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
PB110451BL	Cyanide	WATER		Batch Number:		PB110451		Prep Date:	06/20/2018	
		-0.00033	<0.005	U		0.005		06/21/2018	12:55	LB96178
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB110475BL	Cyanide	SOLID		Batch Number:		PB110475		Prep Date:	06/21/2018	
		-0.011	<0.24	U		0.24		06/21/2018	12:48	LB96178



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB96178 level: low sdg no.: LB96178
contract: lab code: CHEM case no.: LB96178 sas no.: LB96178
matrix: Solid sample id: J3246-03 client id: OK-01-062018MS
Percent Solids for Sample: 95.8 Spiked ID: J3246-03MS Percent Solids for Spike Sample: 95.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.063	J	2	82		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB96178 level: low sdg no.: LB96178
contract: lab code: CHEM case no.: LB96178 sas no.: LB96178
matrix: Solid sample id: J3246-03 client id: OK-01-062018MSD
Percent Solids for Sample: 95.8 Spiked ID: J3246-03MSD Percent Solids for Spike Sample: 95.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.6		0.063	J	2	77		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB96178 level: low sdg no.: LB96178
contract: lab code: CHEM case no.: LB96178 sas no.: LB96178
matrix: WATER sample id: J3570-06 client id: 20180376-COMPOSITE-CS-1B-ELUTRIATEMS
Percent Solids for Sample: 0 Spiked ID: J3570-06MS 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	0.038		0.003	U	0.04	95		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB96178 level: low sdg no.: LB96178
contract: lab code: CHEM case no.: LB96178 sas no.: LB96178
matrix: WATER sample id: J3570-06 client id: 20180376-COMPOSITE-CS-1B-ELUTRIATEMSD
Percent Solids for Sample: 0 Spiked ID: J3570-06MSD 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	0.038		0.003	U	0.04	95		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB96178 **Level:** LOW **SDG No.:** LB96178
Contract: **Lab Code:** CHEM **Case No.:** LB96178 **SAS No.:** LB96178
Matrix: Solid **Sample ID:** J3246-03 **Client ID:** OK-01-062018DUP
Percent Solids for Sample: 95.8 **Duplicate ID** J3246-03DUP **Percent Solids for Spike Sample:** 95.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.063	J	0.011	U	200.0	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB96178 **Level:** LOW **SDG No.:** LB96178
Contract: **Lab Code:** CHEM **Case No.:** LB96178 **SAS No.:** LB96178
Matrix: Solid **Sample ID:** J3246-03MS **Client ID:** OK-01-062018MSD
Percent Solids for Sample: 95.8 **Duplicate ID** J3246-03MSD **Percent Solids for Spike Sample:** 95.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.7		1.6		6		

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DUPLICATE SAMPLE SUMMARY

Client: LB96178 **Level:** LOW **SDG No.:** LB96178
Contract: **Lab Code:** CHEM **Case No.:** LB96178 **SAS No.:** LB96178
Matrix: WATER **Sample ID:** J3570-06 **Client ID:** 20180376-COMPOSITE-CS-1B-ELUTRIATEDUP
Percent Solids for Sample: 0 **Duplicate ID** J3570-06DUP **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	0.0027	U			

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB96178 **Level:** LOW **SDG No.:** LB96178
Contract: **Lab Code:** CHEM **Case No.:** LB96178 **SAS No.:** LB96178
Matrix: WATER **Sample ID:** J3570-06MS **Client ID:** 20180376-COMPOSITE-CS-1B-ELUTRIATEMSD
Percent Solids for Sample: 0 **Duplicate ID** J3570-06MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.038		0.038		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB96178

SDG No.: LB96178

Contract:

Lab Code: CHEM

Case No.: LB96178

SAS No.: LB96178

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB110451BS Cyanide	mg/L	0.1	0.096		96	85 - 115	



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB96178

SDG No.: LB96178

Contract:

Lab Code: CHEM

Case No.: LB96178

SAS No.: LB96178

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB110475BS Cyanide	mg/Kg	4.8	4.8		100	85 - 115	