



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92801

SDG No.: LB92801

Contract: _____

Lab Code: CHEM

Case No.: LB92801

SAS No.: LB92801

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
ICV1	Reactive Cyanide	0.099	0.099	100		85 - 115		01/23/2018	14:44	LB92801



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92801

SDG No.: LB92801

Contract: _____ Lab Code: CHEM

Case No.: LB92801

SAS No.: LB92801

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	Reactive Cyanide	0.25	0.25	100		90 - 110		01/23/2018	14:44	LB92801
CCV2	Reactive Cyanide	0.25	0.25	100		90 - 110		01/23/2018	14:51	LB92801
CCV3	Reactive Cyanide	0.25	0.25	100		90 - 110		01/23/2018	14:59	LB92801
CCV4	Reactive Cyanide	0.26	0.25	104		90 - 110		01/23/2018	15:20	LB92801



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92801 **SDG No.:** LB92801
Contract: **Lab Code:** CHEM **Case No.:** LB92801 **SAS No.:** LB92801

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0	+/-0.005	U		0.005		01/23/2018	14:44	LB92801



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92801

SDG No.: LB92801

Contract:

Lab Code: CHEM

Case No.: LB92801

SAS No.: LB92801

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00019	+/-0.005	U		0.005		01/23/2018	14:44	LB92801
CCB2	Reactive Cyanide	0.00014	+/-0.005	U		0.005		01/23/2018	14:51	LB92801
CCB3	Reactive Cyanide	0.00023	+/-0.005	U		0.005		01/23/2018	14:59	LB92801
CCB4	Reactive Cyanide	0	+/-0.005	U		0.005		01/23/2018	15:20	LB92801



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92801

SDG No.: LB92801

Contract: Lab Code: CHEM

Case No.: LB92801

SAS No.: LB92801

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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Report of Analysis

Client:		Date Collected:	1/22/2018 12:00:00 AM
Project:	LB92801	Date Received:	1/22/2018 12:00:00 AM
Client Sample ID:	CL-01-012218-A	SDG No.:	LB92801
Lab Sample ID:	J1015-13	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0011	U	1	0.025		0.05	mg/Kg	01/23/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/22/2018 12:00:00 AM
Project:	LB92801	Date Received:	1/22/2018 12:00:00 AM
Client Sample ID:	CL-01-012218-B	SDG No.:	LB92801
Lab Sample ID:	J1015-15	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0056	U	1	0.025		0.05	mg/Kg	01/23/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/22/2018 12:00:00 AM
Project:	LB92801	Date Received:	1/22/2018 12:00:00 AM
Client Sample ID:	CL-01-012218-C	SDG No.:	LB92801
Lab Sample ID:	J1015-17	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0016	U	1	0.025		0.05	mg/Kg	01/23/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/22/2018 12:00:00 AM
Project:	LB92801	Date Received:	1/22/2018 12:00:00 AM
Client Sample ID:	CL-01-012218-D	SDG No.:	LB92801
Lab Sample ID:	J1015-19	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0013	U	1	0.025		0.05	mg/Kg	01/23/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/22/2018 12:00:00 AM
Project:	LB92801	Date Received:	1/22/2018 12:00:00 AM
Client Sample ID:	OK-01-012218	SDG No.:	LB92801
Lab Sample ID:	J1016-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00085	U	1	0.025		0.05	mg/Kg	01/23/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/22/2018 12:00:00 AM
Project:	LB92801	Date Received:	1/22/2018 12:00:00 AM
Client Sample ID:	SU-04-012218	SDG No.:	LB92801
Lab Sample ID:	J1022-09	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0011	U	1	0.025		0.05	mg/Kg	01/23/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/18/2018 12:00:00 AM
Project:	LB92801	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	TEL-COMP-1	SDG No.:	LB92801
Lab Sample ID:	J1229-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0012	U	1	0.025		0.05	mg/Kg	01/23/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/19/2018 12:00:00 AM
Project:	LB92801	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	CA-1	SDG No.:	LB92801
Lab Sample ID:	J1240-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00067	U	1	0.025		0.05	mg/Kg	01/23/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/19/2018 12:00:00 AM
Project:	LB92801	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	PT-1	SDG No.:	LB92801
Lab Sample ID:	J1240-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00047	U	1	0.0025		0.005	mg/L	01/23/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/18/2018 12:00:00 AM
Project:	LB92801	Date Received:	1/22/2018 12:00:00 AM
Client Sample ID:	OWS-1	SDG No.:	LB92801
Lab Sample ID:	J1255-01	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0001	U	1	0.025		0.05	mg/Kg	01/23/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/18/2018 12:00:00 AM
Project:	LB92801	Date Received:	1/22/2018 12:00:00 AM
Client Sample ID:	OWS-2	SDG No.:	LB92801
Lab Sample ID:	J1255-02	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0	U	1	0.025		0.05	mg/Kg	01/23/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/18/2018 12:00:00 AM
Project:	LB92801	Date Received:	1/22/2018 12:00:00 AM
Client Sample ID:	OWS-3	SDG No.:	LB92801
Lab Sample ID:	J1255-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0008	U	1	0.025		0.05	mg/Kg	01/23/2018	01/23/2018	9012B

Report of Analysis

Client:		Date Collected:	1/18/2018 12:00:00 AM
Project:	LB92801	Date Received:	1/22/2018 12:00:00 AM
Client Sample ID:	OWS-4	SDG No.:	LB92801
Lab Sample ID:	J1255-04	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0025	U	1	0.025		0.05	mg/Kg	01/23/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/22/2018 12:00:00 AM
Project:	LB92801	Date Received:	1/22/2018 12:00:00 AM
Client Sample ID:	CONCRETE-PIERS	SDG No.:	LB92801
Lab Sample ID:	J1258-02	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0014	U	1	0.025		0.05	mg/Kg	01/23/2018	01/23/2018	9012B

Report of Analysis

Client:		Date Collected:	1/22/2018 12:00:00 AM
Project:	LB92801	Date Received:	1/22/2018 12:00:00 AM
Client Sample ID:	MH-198	SDG No.:	LB92801
Lab Sample ID:	J1266-04	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0026	U	1	0.025		0.05	mg/Kg	01/23/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/22/2018 12:00:00 AM
Project:	LB92801	Date Received:	1/22/2018 12:00:00 AM
Client Sample ID:	MH-199	SDG No.:	LB92801
Lab Sample ID:	J1266-08	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0016	U	1	0.025		0.05	mg/Kg	01/23/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/22/2018 12:00:00 AM
Project:	LB92801	Date Received:	1/22/2018 12:00:00 AM
Client Sample ID:	MH-200	SDG No.:	LB92801
Lab Sample ID:	J1266-12	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0024	U	1	0.025		0.05	mg/Kg	01/23/2018	01/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/22/2018 12:00:00 AM
Project:	LB92801	Date Received:	1/22/2018 12:00:00 AM
Client Sample ID:	MH-200	SDG No.:	LB92801
Lab Sample ID:	J1266-12	Matrix:	Solid
Level (low/med):	low	% Solid:	100

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



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- 3b -
PREPARATION BLANK SUMMARY

Client: LB92801

SDG No.: LB92801

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
PB105885BL	Reactive Cyanide	SOLID		Batch Number:		PB105885		Prep Date:	01/23/2018	
		-0.0025	<0.05	U		0.05		01/23/2018	14:44	LB92801
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB105886BL	Reactive Cyanide	WATER		Batch Number:		PB105886		Prep Date:	01/23/2018	
		-0.0003	<0.005	U		0.005		01/23/2018	14:59	LB92801

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92801 **Level:** LOW **SDG No.:** LB92801
Contract: **Lab Code:** CHEM **Case No.:** LB92801 **SAS No.:** LB92801
Matrix: Solid **Sample ID:** J1015-13 **Client ID:** CL-01-012218-ADUP
Percent Solids for Sample: 100 **Duplicate ID** J1015-13DUP **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	-0.0015	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB92801 **Level:** LOW **SDG No.:** LB92801
Contract: **Lab Code:** CHEM **Case No.:** LB92801 **SAS No.:** LB92801
Matrix: WATER **Sample ID:** J1240-04 **Client ID:** PT-1DUP
Percent Solids for Sample: 0 **Duplicate ID** J1240-04DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/L	20	0.0025	U	0.00063	U			