



GENCHEM

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86820 **SDG No.:** LB86820
Contract: **Lab Code:** CHEM **Case No.:** LB86820 **SAS No.:** LB86820

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0	+/-0.005	U		0.005		04/11/2017	13:45	LB86820

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00018	+/-0.005	U		0.005		04/11/2017	13:45	LB86820
CCB2	Cyanide	0.0001	+/-0.005	U		0.005		04/11/2017	13:53	LB86820
CCB3	Cyanide	0.00011	+/-0.005	U		0.005		04/11/2017	14:00	LB86820
CCB4	Cyanide	0.00016	+/-0.005	U		0.005		04/11/2017	14:36	LB86820



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86820

SDG No.: LB86820

Contract: Lab Code: CHEM

Case No.: LB86820

SAS No.: LB86820

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:	
Project:	LB86820	Date Received:	
Client Sample ID:	HIGHPB98170	SDG No.:	LB86820
Lab Sample ID:	HIGHPB98170	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		04/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/7/2017 12:00:00 AM
Project:	LB86820	Date Received:	4/7/2017 12:00:00 AM
Client Sample ID:	GRID-1	SDG No.:	LB86820
Lab Sample ID:	I2595-01	Matrix:	Solid
Level (low/med):	low	% Solid:	83.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.096	J	1	0.038		0.29	mg/Kg	04/11/2017	04/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/7/2017 12:00:00 AM
Project:	LB86820	Date Received:	4/7/2017 12:00:00 AM
Client Sample ID:	GRID-4	SDG No.:	LB86820
Lab Sample ID:	I2595-04	Matrix:	Solid
Level (low/med):	low	% Solid:	80.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0065	U	1	0.039		0.29	mg/Kg	04/11/2017	04/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/7/2017 12:00:00 AM
Project:	LB86820	Date Received:	4/7/2017 12:00:00 AM
Client Sample ID:	A2394	SDG No.:	LB86820
Lab Sample ID:	I2595-07	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	0.00088	U	1	0.003		0.005	mg/L	04/11/2017	04/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/10/2017 12:00:00 AM
Project:	LB86820	Date Received:	4/10/2017 12:00:00 AM
Client Sample ID:	VIRGINROCK-1	SDG No.:	LB86820
Lab Sample ID:	I2611-01	Matrix:	Solid
Level (low/med):	low	% Solid:	99.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0016	U	1	0.032		0.24	mg/Kg	04/11/2017	04/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/10/2017 12:00:00 AM
Project:	LB86820	Date Received:	4/10/2017 12:00:00 AM
Client Sample ID:	SUMP	SDG No.:	LB86820
Lab Sample ID:	I2619-01	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	-0.00014	U	1	0.003		0.005	mg/L	04/11/2017	04/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/10/2017 12:00:00 AM
Project:	LB86820	Date Received:	4/10/2017 12:00:00 AM
Client Sample ID:	D001-D002-D003	SDG No.:	LB86820
Lab Sample ID:	I2620-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.016	U	1	0.035		0.26	mg/Kg	04/11/2017	04/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/10/2017 12:00:00 AM
Project:	LB86820	Date Received:	4/10/2017 12:00:00 AM
Client Sample ID:	D004-D005-D006	SDG No.:	LB86820
Lab Sample ID:	I2620-06	Matrix:	Solid
Level (low/med):	low	% Solid:	93.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.05	U	1	0.034		0.26	mg/Kg	04/11/2017	04/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/10/2017 12:00:00 AM
Project:	LB86820	Date Received:	4/10/2017 12:00:00 AM
Client Sample ID:	SOUTH-MAHWAH	SDG No.:	LB86820
Lab Sample ID:	I2620-11	Matrix:	Solid
Level (low/med):	low	% Solid:	91.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.032	U	1	0.035		0.26	mg/Kg	04/11/2017	04/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/7/2017 12:00:00 AM
Project:	LB86820	Date Received:	4/10/2017 12:00:00 AM
Client Sample ID:	E2-CONCRETE-BATCH-4	SDG No.:	LB86820
Lab Sample ID:	I2622-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.18	J	1	0.035		0.27	mg/Kg	04/11/2017	04/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/7/2017 12:00:00 AM
Project:	LB86820	Date Received:	4/10/2017 12:00:00 AM
Client Sample ID:	E2-CONCRETE-BATCH-5	SDG No.:	LB86820
Lab Sample ID:	I2622-03	Matrix:	Solid
Level (low/med):	low	% Solid:	91.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.027	U	1	0.035		0.26	mg/Kg	04/11/2017	04/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB86820	Date Received:	
Client Sample ID:	LOWPB98170	SDG No.:	LB86820
Lab Sample ID:	LOWPB98170	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	0.0098		1	0.003		0.005	mg/L		04/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB86820	Date Received:	
Client Sample ID:	LOWPB98170	SDG No.:	LB86820
Lab Sample ID:	LOWPB98170	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



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PREPARATION BLANK SUMMARY

Client: LB86820

SDG No.: LB86820

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
PB98170BL	SOLID		Batch Number:		PB98170		Prep Date:		04/11/2017	
	Cyanide	0.0018	<0.25	U		0.25		04/11/2017	13:45	LB86820
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB98171BL	WATER		Batch Number:		PB98171		Prep Date:		04/11/2017	
	Cyanide	-0.00041	<0.005	U		0.005		04/11/2017	13:53	LB86820



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MATRIX SPIKE SUMMARY

client: LB86820 level: low sdg no.: LB86820
contract: lab code: CHEM case no.: LB86820 sas no.: LB86820
matrix: Solid sample id: I2595-01 client id: GRID-1MS
Percent Solids for Sample: 83.8 Spiked ID: I2595-01MS Percent Solids for Spike Sample: 83.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2		0.096	J	2.3	83		



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MATRIX SPIKE DUPLICATE SUMMARY

client: LB86820 level: low sdg no.: LB86820
contract: lab code: CHEM case no.: LB86820 sas no.: LB86820
matrix: Solid sample id: I2595-01 client id: GRID-1MSD
Percent Solids for Sample: 83.8 Spiked ID: I2595-01MSD Percent Solids for Spike Sample: 83.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.4		0.096	J	2.3	100		



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MATRIX SPIKE SUMMARY

client: LB86820 level: low sdg no.: LB86820
contract: lab code: CHEM case no.: LB86820 sas no.: LB86820
matrix: WATER sample id: I2595-07 client id: A2394MS
Percent Solids for Sample: 0 Spiked ID: I2595-07MS 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	0.032		0.003	U	0.04	80		



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MATRIX SPIKE DUPLICATE SUMMARY

client: LB86820 level: low sdg no.: LB86820
contract: lab code: CHEM case no.: LB86820 sas no.: LB86820
matrix: WATER sample id: I2595-07 client id: A2394MSD
Percent Solids for Sample: 0 Spiked ID: I2595-07MSD 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	0.032		0.003	U	0.04	80		

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DUPLICATE SAMPLE SUMMARY

Client: LB86820 **Level:** LOW **SDG No.:** LB86820
Contract: **Lab Code:** CHEM **Case No.:** LB86820 **SAS No.:** LB86820
Matrix: Solid **Sample ID:** I2595-01 **Client ID:** GRID-1DUP
Percent Solids for Sample: 83.8 **Duplicate ID** I2595-01DUP **Percent Solids for Spike Sample:** 83.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.096	J	0.071	J	30	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB86820 **Level:** LOW **SDG No.:** LB86820
Contract: **Lab Code:** CHEM **Case No.:** LB86820 **SAS No.:** LB86820
Matrix: Solid **Sample ID:** I2595-01MS **Client ID:** GRID-1MSD
Percent Solids for Sample: 83.8 **Duplicate ID** I2595-01MSD **Percent Solids for Spike Sample:** 83.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2		2.4		18		

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DUPLICATE SAMPLE SUMMARY

Client: LB86820 **Level:** LOW **SDG No.:** LB86820
Contract: **Lab Code:** CHEM **Case No.:** LB86820 **SAS No.:** LB86820
Matrix: WATER **Sample ID:** I2595-07 **Client ID:** A2394DUP
Percent Solids for Sample: 0 **Duplicate ID** I2595-07DUP **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	0.0013	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB86820 **Level:** LOW **SDG No.:** LB86820
Contract: **Lab Code:** CHEM **Case No.:** LB86820 **SAS No.:** LB86820
Matrix: WATER **Sample ID:** I2595-07MS **Client ID:** A2394MSD
Percent Solids for Sample: 0 **Duplicate ID** I2595-07MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.032		0.032		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86820

SDG No.: LB86820

Contract:

Lab Code: CHEM

Case No.: LB86820

SAS No.: LB86820

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB98171BS Cyanide	mg/L	0.1	0.092		92	85 - 115	