

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Reactive Cyanide	0.093	0.099	93.9	0	85 - 115		05/15/2017	13:42	LB87452



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87452

SDG No.: LB87452

Contract: _____ Lab Code: CHEM

Case No.: LB87452

SAS No.: LB87452

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	Reactive Cyanide	0.24	0.25	96	0	90 - 110		05/15/2017	13:42	LB87452
CCV2	Reactive Cyanide	0.24	0.25	96	0	90 - 110		05/15/2017	13:50	LB87452
CCV3	Reactive Cyanide	0.26	0.25	104	0	90 - 110		05/15/2017	14:20	LB87452



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87452 **SDG No.:** LB87452
Contract: **Lab Code:** CHEM **Case No.:** LB87452 **SAS No.:** LB87452

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		05/15/2017	13:42	LB87452



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87452

SDG No.: LB87452

Contract: _____

Lab Code: CHEM

Case No.: LB87452

SAS No.: LB87452

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0	+/-0.005	U		0.005		05/15/2017	13:42	LB87452
CCB2	Reactive Cyanide	-0.00018	+/-0.005	U		0.005		05/15/2017	13:50	LB87452
CCB3	Reactive Cyanide	0.00019	+/-0.005	U		0.005		05/15/2017	14:20	LB87452



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87452

SDG No.: LB87452

Contract: Lab Code: CHEM

Case No.: LB87452

SAS No.: LB87452

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:	5/9/2017 12:00:00 AM
Project:	LB87452	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	SB-04-COMP	SDG No.:	LB87452
Lab Sample ID:	I3092-07	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	-0.003	U	1	0.025		0.05	mg/Kg	05/12/2017	05/15/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87452	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	SB-05-COMP	SDG No.:	LB87452
Lab Sample ID:	I3092-08	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	-0.0083	U	1	0.025		0.049	mg/Kg	05/12/2017	05/15/2017	9012B

Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87452	Date Received:	5/10/2017 12:00:00 AM
Client Sample ID:	SB-07-COMP	SDG No.:	LB87452
Lab Sample ID:	I3092-09	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	-0.0059	U	1	0.025		0.049	mg/Kg	05/12/2017	05/15/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/10/2017 12:00:00 AM
Project:	LB87452	Date Received:	5/11/2017 12:00:00 AM
Client Sample ID:	OWS-1	SDG No.:	LB87452
Lab Sample ID:	I3099-01	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	-0.009	U	1	0.025		0.049	mg/Kg	05/12/2017	05/15/2017	9012B

Report of Analysis

Client:		Date Collected:	5/10/2017 12:00:00 AM
Project:	LB87452	Date Received:	5/11/2017 12:00:00 AM
Client Sample ID:	IDW-GAC3-170510	SDG No.:	LB87452
Lab Sample ID:	I3108-01	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	-0.0078	U	1	0.025		0.05	mg/Kg	05/12/2017	05/15/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/11/2017 12:00:00 AM
Project:	LB87452	Date Received:	5/11/2017 12:00:00 AM
Client Sample ID:	WP.RD-CORNELL-COMP	SDG No.:	LB87452
Lab Sample ID:	I3120-02	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	-0.0079	U	1	0.025		0.05	mg/Kg	05/12/2017	05/15/2017	9012B

Report of Analysis

Client:		Date Collected:	5/11/2017 12:00:00 AM
Project:	LB87452	Date Received:	5/11/2017 12:00:00 AM
Client Sample ID:	RO-1540-COMP	SDG No.:	LB87452
Lab Sample ID:	I3121-03	Matrix:	Solid
Level (low/med):	low	% Solid:	82.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0071	U	1	0.025		0.05	mg/Kg	05/12/2017	05/15/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/11/2017 12:00:00 AM
Project:	LB87452	Date Received:	5/11/2017 12:00:00 AM
Client Sample ID:	RO-72-11997-72-12002-72-11979-COMP	SDG No.:	LB87452
Lab Sample ID:	I3122-02	Matrix:	Solid
Level (low/med):	low	% Solid:	95.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0083	U	1	0.025		0.05	mg/Kg	05/12/2017	05/15/2017	9012B

Report of Analysis

Client:		Date Collected:	5/11/2017 12:00:00 AM
Project:	LB87452	Date Received:	5/11/2017 12:00:00 AM
Client Sample ID:	DEBRIS-DRUMS-COMP	SDG No.:	LB87452
Lab Sample ID:	I3123-01	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	-0.0057	U	1	0.025		0.05	mg/Kg	05/12/2017	05/15/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/12/2017 12:00:00 AM
Project:	LB87452	Date Received:	5/12/2017 12:00:00 AM
Client Sample ID:	TP-1COMP	SDG No.:	LB87452
Lab Sample ID:	I3147-07	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	-0.0057	U	1	0.025		0.05	mg/Kg	05/15/2017	05/15/2017	9012B

Report of Analysis

Client:		Date Collected:	5/12/2017 12:00:00 AM
Project:	LB87452	Date Received:	5/12/2017 12:00:00 AM
Client Sample ID:	TP-2COMP	SDG No.:	LB87452
Lab Sample ID:	I3147-08	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	-0.0059	U	1	0.025		0.05	mg/Kg	05/15/2017	05/15/2017	9012B

Report of Analysis

Client:		Date Collected:	5/12/2017 12:00:00 AM
Project:	LB87452	Date Received:	5/12/2017 12:00:00 AM
Client Sample ID:	TP-3COMP	SDG No.:	LB87452
Lab Sample ID:	I3147-09	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	-0.0076	U	1	0.025		0.049	mg/Kg	05/15/2017	05/15/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/12/2017 12:00:00 AM
Project:	LB87452	Date Received:	5/12/2017 12:00:00 AM
Client Sample ID:	TP-3COMP	SDG No.:	LB87452
Lab Sample ID:	I3147-09	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB87452

SDG No.: LB87452

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
PB98911BL	Reactive Cyanide	SOLID		Batch Number:		PB98911		Prep Date:	05/12/2017	
		-0.0029	<0.05	U		0.05		05/15/2017	13:42	LB87452
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB98950BL	Reactive Cyanide	SOLID		Batch Number:		PB98950		Prep Date:	05/15/2017	
		-0.0034	<0.05	U		0.05		05/15/2017	13:50	LB87452

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DUPLICATE SAMPLE SUMMARY

Client: LB87452 **Level:** LOW **SDG No.:** LB87452
Contract: **Lab Code:** CHEM **Case No.:** LB87452 **SAS No.:** LB87452
Matrix: Solid **Sample ID:** I3092-07 **Client ID:** SB-04-COMPDUP
Percent Solids for Sample: 100 **Duplicate ID** I3092-07DUP **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	-0.0034	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB87452 **Level:** LOW **SDG No.:** LB87452
Contract: **Lab Code:** CHEM **Case No.:** LB87452 **SAS No.:** LB87452
Matrix: Solid **Sample ID:** I3147-07 **Client ID:** TP-1COMPDUP
Percent Solids for Sample: 100 **Duplicate ID** I3147-07DUP **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	-0.0047	U			