



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	
Project:	LB88935	Date Received:	
Client Sample ID:	HIGHPB100841	SDG No.:	LB88935
Lab Sample ID:	HIGHPB100841	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		07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/19/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	B-2(6-10)COMP	SDG No.:	LB88935
Lab Sample ID:	I4347-02	Matrix:	Solid
Level (low/med):	low	% Solid:	89.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.18	J	1	0.036		0.27	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	FK-SF-03-001-A	SDG No.:	LB88935
Lab Sample ID:	I4352-01	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	0.087	J	1	0.034		0.26	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	FK-SF-03-001-B	SDG No.:	LB88935
Lab Sample ID:	I4352-03	Matrix:	Solid
Level (low/med):	low	% Solid:	95.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.091	J	1	0.033		0.25	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	FK-SF-03-001-C	SDG No.:	LB88935
Lab Sample ID:	I4352-05	Matrix:	Solid
Level (low/med):	low	% Solid:	90

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.078	J	1	0.035		0.27	mg/Kg	07/21/2017	07/24/2017	9012B

Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	TR-05-072017	SDG No.:	LB88935
Lab Sample ID:	I4358-01	Matrix:	Solid
Level (low/med):	low	% Solid:	93.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.045	J	1	0.034		0.26	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	CEMETERY-1-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4359-01	Matrix:	Solid
Level (low/med):	low	% Solid:	94.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.082	J	1	0.034		0.26	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	CEMETERY-2-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4359-03	Matrix:	Solid
Level (low/med):	low	% Solid:	92.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.055	J	1	0.034		0.26	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	CEMETERY-3-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4359-05	Matrix:	Solid
Level (low/med):	low	% Solid:	94.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.066	J	1	0.033		0.25	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	CEMETERY-4-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4359-07	Matrix:	Solid
Level (low/med):	low	% Solid:	94.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.056	J	1	0.034		0.26	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	CEMETERY-5-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4359-09	Matrix:	Solid
Level (low/med):	low	% Solid:	91.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.13	J	1	0.035		0.27	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	CEMETERY-6-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4359-11	Matrix:	Solid
Level (low/med):	low	% Solid:	93.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.035		0.26	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	CEMETERY-7-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4359-13	Matrix:	Solid
Level (low/med):	low	% Solid:	94.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.095	J	1	0.033		0.25	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	CEMETERY-8-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4359-15	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	0.21	J	1	0.035		0.27	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	CEMETERY-9-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4359-17	Matrix:	Solid
Level (low/med):	low	% Solid:	94.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.033		0.25	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	CEMETERY-10-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4359-19	Matrix:	Solid
Level (low/med):	low	% Solid:	92

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.14	J	1	0.034		0.26	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	CEMETERY-11-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4360-01	Matrix:	Solid
Level (low/med):	low	% Solid:	91.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.098	J	1	0.035		0.26	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	CEMETERY-12-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4360-03	Matrix:	Solid
Level (low/med):	low	% Solid:	93.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.091	J	1	0.034		0.26	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	CEMETERY-13-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4360-05	Matrix:	Solid
Level (low/med):	low	% Solid:	94.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.075	J	1	0.033		0.25	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	CEMETERY-14-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4360-07	Matrix:	Solid
Level (low/med):	low	% Solid:	95.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.088	J	1	0.033		0.25	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	CEMETERY-15-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4360-09	Matrix:	Solid
Level (low/med):	low	% Solid:	96.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.071	J	1	0.033		0.25	mg/Kg	07/21/2017	07/24/2017	9012B

Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	295-N-1-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4360-11	Matrix:	Solid
Level (low/med):	low	% Solid:	77.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.074	J	1	0.041		0.31	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	295-N-2-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4360-13	Matrix:	Solid
Level (low/med):	low	% Solid:	90.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.054	J	1	0.035		0.27	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	295-N-3-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4360-15	Matrix:	Solid
Level (low/med):	low	% Solid:	90.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.079	J	1	0.035		0.27	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	295-N-4-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4360-17	Matrix:	Solid
Level (low/med):	low	% Solid:	90.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.071	J	1	0.035		0.27	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	295-N-5-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4360-19	Matrix:	Solid
Level (low/med):	low	% Solid:	94.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.051	J	1	0.034		0.25	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	RAMP-D-1-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4361-01	Matrix:	Solid
Level (low/med):	low	% Solid:	76.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.042		0.32	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	RAMP-D-2-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4361-03	Matrix:	Solid
Level (low/med):	low	% Solid:	70.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	J	1	0.045		0.34	mg/Kg	07/21/2017	07/24/2017	9012B

Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	RAMP-D-3-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4361-05	Matrix:	Solid
Level (low/med):	low	% Solid:	78

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.21	J	1	0.041		0.31	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	RAMP-D-4-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4361-07	Matrix:	Solid
Level (low/med):	low	% Solid:	93.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.092	J	1	0.034		0.26	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88935	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	RAMP-D-5-(0-2)	SDG No.:	LB88935
Lab Sample ID:	I4361-09	Matrix:	Solid
Level (low/med):	low	% Solid:	77.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.042		0.32	mg/Kg	07/21/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB88935	Date Received:	
Client Sample ID:	LOWPB100841	SDG No.:	LB88935
Lab Sample ID:	LOWPB100841	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		07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB88935	Date Received:	
Client Sample ID:	LOWPB100841	SDG No.:	LB88935
Lab Sample ID:	LOWPB100841	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

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB88935

SDG No.: LB88935

Contract: _____

Lab Code: CHEM

Case No.: LB88935

SAS No.: LB88935

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
ICV1	Cyanide	0.094	0.099	94.9	0	85 - 115		07/24/2017	10:57	LB88935



GENCHEM

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB88935

SDG No.: LB88935

Contract: _____ Lab Code: CHEM

Case No.: LB88935

SAS No.: LB88935

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	Cyanide	0.24	0.25	96	0	90 - 110		07/24/2017	10:57	LB88935
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		07/24/2017	11:05	LB88935
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		07/24/2017	11:13	LB88935
CCV4	Cyanide	0.24	0.25	96	0	90 - 110		07/24/2017	11:20	LB88935
CCV5	Cyanide	0.26	0.25	104	0	90 - 110		07/24/2017	11:43	LB88935
CCV6	Cyanide	0.26	0.25	104	0	90 - 110		07/24/2017	11:48	LB88935



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88935 **SDG No.:** LB88935
Contract: **Lab Code:** CHEM **Case No.:** LB88935 **SAS No.:** LB88935

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.0015	+/-0.005	U		0.005		07/24/2017	10:57	LB88935



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88935

SDG No.: LB88935

Contract:

Lab Code: CHEM

Case No.: LB88935

SAS No.: LB88935

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.0014	+/-0.005	U		0.005		07/24/2017	10:57	LB88935
CCB2	Cyanide	0.0014	+/-0.005	U		0.005		07/24/2017	11:05	LB88935
CCB3	Cyanide	0.0014	+/-0.005	U		0.005		07/24/2017	11:13	LB88935
CCB4	Cyanide	0.0014	+/-0.005	U		0.005		07/24/2017	11:20	LB88935
CCB5	Cyanide	0.0015	+/-0.005	U		0.005		07/24/2017	11:48	LB88935
CCB6	Cyanide	0.0015	+/-0.005	U		0.005		07/24/2017	11:48	LB88935



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88935

SDG No.: LB88935

Contract: Lab Code: CHEM

Case No.: LB88935

SAS No.: LB88935

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: LB88935

SDG No.: LB88935

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
PB100841BL	Cyanide	SOLID		Batch Number:		PB100841		Prep Date:	07/21/2017	
		0.065	<0.25	J		0.25		07/24/2017	10:57	LB88935
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB100852BL	Cyanide	SOLID		Batch Number:		PB100852		Prep Date:	07/21/2017	
		0.057	<0.25	J		0.25		07/24/2017	11:13	LB88935



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB88935 level: low sdg no.: LB88935
contract: lab code: CHEM case no.: LB88935 sas no.: LB88935
matrix: Solid sample id: I4347-02 client id: B-2(6-10)COMPMS
Percent Solids for Sample: 89.8 Spiked ID: I4347-02MS Percent Solids for Spike Sample: 89.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.18	J	2.2	87		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB88935 level: low sdg no.: LB88935
contract: lab code: CHEM case no.: LB88935 sas no.: LB88935
matrix: Solid sample id: I4347-02 client id: B-2(6-10)COMPMSD
Percent Solids for Sample: 89.8 Spiked ID: I4347-02MSD Percent Solids for Spike Sample: 89.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125		2	0.18	J	2.2	83		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB88935 level: low sdg no.: LB88935
contract: lab code: CHEM case no.: LB88935 sas no.: LB88935
matrix: Solid sample id: I4360-01 client id: CEMETERY-11-(0-2)MS
Percent Solids for Sample: 91.9 Spiked ID: I4360-01MS Percent Solids for Spike Sample: 91.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.098	J	2.1	81		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB88935 level: low sdg no.: LB88935
contract: lab code: CHEM case no.: LB88935 sas no.: LB88935
matrix: Solid sample id: I4360-01 client id: CEMETERY-11-(0-2)MSD
Percent Solids for Sample: 91.9 Spiked ID: I4360-01MSD Percent Solids for Spike Sample: 91.9

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.098	J	2.1	81		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB88935 **Level:** LOW **SDG No.:** LB88935
Contract: **Lab Code:** CHEM **Case No.:** LB88935 **SAS No.:** LB88935
Matrix: Solid **Sample ID:** I4347-02 **Client ID:** B-2(6-10)COMPDUP
Percent Solids for Sample: 89.8 **Duplicate ID** I4347-02DUP **Percent Solids for Spike Sample:** 89.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.18	J	0.15	J	18		

GENCHEM**- 6 -****DUPLICATE SAMPLE SUMMARY**

Client: LB88935 **Level:** LOW **SDG No.:** LB88935
Contract: **Lab Code:** CHEM **Case No.:** LB88935 **SAS No.:** LB88935
Matrix: Solid **Sample ID:** I4347-02MS **Client ID:** B-2(6-10)COMPMSD
Percent Solids for Sample: 89.8 **Duplicate ID** I4347-02MSD **Percent Solids for Spike Sample:** 89.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.1			2	5		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB88935 **Level:** LOW **SDG No.:** LB88935
Contract: **Lab Code:** CHEM **Case No.:** LB88935 **SAS No.:** LB88935
Matrix: Solid **Sample ID:** I4360-01 **Client ID:** CEMETERY-11-(0-2)DUP
Percent Solids for Sample: 91.9 **Duplicate ID** I4360-01DUP **Percent Solids for Spike Sample:** 91.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.098	J	0.087	J	12		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB88935 **Level:** LOW **SDG No.:** LB88935
Contract: **Lab Code:** CHEM **Case No.:** LB88935 **SAS No.:** LB88935
Matrix: Solid **Sample ID:** I4360-01MS **Client ID:** CEMETERY-11-(0-2)MSD
Percent Solids for Sample: 91.9 **Duplicate ID** I4360-01MSD **Percent Solids for Spike Sample:** 91.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.8		1.8		0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB88935 SDG No.: LB88935
Contract: Lab Code: CHEM Case No.: LB88935 SAS No.: LB88935

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB100841BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB88935

SDG No.: LB88935

Contract:

Lab Code: CHEM

Case No.: LB88935

SAS No.: LB88935

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB100852BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	

Daily Analysis Runlog For Sequence/QC Batch ID # LB88935

Review By		Review On				
SubDirectory		LB88935		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP56603,WP56604,WP56605,WP56606,WP56607,WP56608,WP56609,WP56610				
ICV Standard		W1541				
CCV Standard		WP56612				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP56611,WP55355,WP55836				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	07/24/17 10:09		OK
2	5.0PPBCN	5.0PPBCN	CAL2	07/24/17 10:09		OK
3	10PPBCN	10PPBCN	CAL3	07/24/17 10:09		OK
4	50PPBCN	50PPBCN	CAL4	07/24/17 10:10		OK
5	100PPBCN	100PPBCN	CAL5	07/24/17 10:10		OK
6	250PPBCN	250PPBCN	CAL6	07/24/17 10:10		OK
7	500PPBCN	500PPBCN	CAL7	07/24/17 10:10		OK
8	ICV1	ICV1	ICV	07/24/17 10:57		OK
9	ICB1	ICB1	ICB	07/24/17 10:57		OK
10	CCV1	CCV1	CCV	07/24/17 10:57		OK
11	CCB1	CCB1	CCB	07/24/17 10:57		OK
12	PB100841BL	PB100841BL	MB	07/24/17 10:57		OK
13	PB100841BS	PB100841BS	LCS	07/24/17 10:57		OK
14	LOWPB100841	LOWPB100841	SAM	07/24/17 10:57		OK
15	HIGHPB100841	HIGHPB100841	SAM	07/24/17 10:57		OK
16	I4347-02	B-2(6-10)COMP	SAM	07/24/17 10:57		OK
17	I4347-02DUP	B-2(6-10)COMP DUP	DUP	07/24/17 10:58		OK
18	I4347-02MS	B-2(6-10)COMPMS	MS	07/24/17 10:58		OK
19	I4347-02MSD	B-2(6-10)COMPMSD	MSD	07/24/17 11:05		OK
20	I4352-01	FK-SF-03-001-A	SAM	07/24/17 11:05		OK
21	I4352-03	FK-SF-03-001-B	SAM	07/24/17 11:05		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB88935

Review By		Review On				
SubDirectory		LB88935		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP56603,WP56604,WP56605,WP56606,WP56607,WP56608,WP56609,WP56610				
ICV Standard		W1541				
CCV Standard		WP56612				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP56611,WP55355,WP55836				
22	CCV2	CCV2	CCV	07/24/17 11:05		OK
23	CCB2	CCB2	CCB	07/24/17 11:05		OK
24	I4352-05	FK-SF-03-001-C	SAM	07/24/17 11:05		OK
25	I4358-01	TR-05-072017	SAM	07/24/17 11:05		OK
26	I4359-01	CEMETERY-1-(0-2)	SAM	07/24/17 11:05		OK
27	I4359-03	CEMETERY-2-(0-2)	SAM	07/24/17 11:05		OK
28	I4359-05	CEMETERY-3-(0-2)	SAM	07/24/17 11:05		OK
29	I4359-07	CEMETERY-4-(0-2)	SAM	07/24/17 11:05		OK
30	I4359-09	CEMETERY-5-(0-2)	SAM	07/24/17 11:13		OK
31	I4359-11	CEMETERY-6-(0-2)	SAM	07/24/17 11:13		OK
32	I4359-13	CEMETERY-7-(0-2)	SAM	07/24/17 11:13		OK
33	I4359-15	CEMETERY-8-(0-2)	SAM	07/24/17 11:13		OK
34	CCV3	CCV3	CCV	07/24/17 11:13		OK
35	CCB3	CCB3	CCB	07/24/17 11:13		OK
36	I4359-17	CEMETERY-9-(0-2)	SAM	07/24/17 11:13		OK
37	I4359-19	CEMETERY-10-(0-2)	SAM	07/24/17 11:13		OK
38	PB100852BL	PB100852BL	MB	07/24/17 11:13		OK
39	PB100852BS	PB100852BS	LCS	07/24/17 11:13		OK
40	I4360-01	CEMETERY-11-(0-2)	SAM	07/24/17 11:13		OK
41	I4360-01DUP	CEMETERY-11-(0-2)	DUP	07/24/17 11:20		OK
42	I4360-01MS	CEMETERY-11-(0-2)	MS	07/24/17 11:20		OK
43	I4360-01MSD	CEMETERY-11-(0-2)	MSD	07/24/17 11:20		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB88935

Review By			Review On			
SubDirectory		LB88935		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP56603,WP56604,WP56605,WP56606,WP56607,WP56608,WP56609,WP56610				
ICV Standard		W1541				
CCV Standard		WP56612				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP56611,WP55355,WP55836				
44	I4360-03	CEMETERY-12-(0-2)	SAM	07/24/17 11:20		OK
45	I4360-05	CEMETERY-13-(0-2)	SAM	07/24/17 11:20		OK
46	CCV4	CCV4	CCV	07/24/17 11:20		OK
47	CCB4	CCB4	CCB	07/24/17 11:20		OK
48	I4360-07	CEMETERY-14-(0-2)	SAM	07/24/17 11:20		OK
49	I4360-09	CEMETERY-15-(0-2)	SAM	07/24/17 11:20		OK
50	I4360-11	295-N-1-(0-2)	SAM	07/24/17 11:20		OK
51	I4360-13	295-N-2-(0-2)	SAM	07/24/17 11:20		OK
52	I4360-15	295-N-3-(0-2)	SAM	07/24/17 11:28		OK
53	I4360-17	295-N-4-(0-2)	SAM	07/24/17 11:28		OK
54	I4360-19	295-N-5-(0-2)	SAM	07/24/17 11:28		OK
55	I4361-01	RAMP-D-1-(0-2)	SAM	07/24/17 11:28		OK
56	I4361-03	RAMP-D-2-(0-2)	SAM	07/24/17 11:28		OK
57	I4361-05	RAMP-D-3-(0-2)	SAM	07/24/17 11:28		OK
58	CCV5	CCV5	CCV	07/24/17 11:43		OK
59	CCB5	CCB5	CCB	07/24/17 11:48		OK
60	I4361-07	RAMP-D-4-(0-2)	SAM	07/24/17 11:48		OK
61	I4361-09	RAMP-D-5-(0-2)	SAM	07/24/17 11:48		OK
62	CCV6	CCV6	CCV	07/24/17 11:48		OK
63	CCB6	CCB6	CCB	07/24/17 11:48		OK