

Daily Analysis Runlog For Sequence/QC Batch ID # LB86969

Review By

Review On

SubDirectory

LB86969

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP54301,WP54300,WP54299,WP54298,WP54297,WP54296				
ICV Standard		WP54302				
CCV Standard		WP54303				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54338,WP53945,WP51626				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	04/19/17 14:14		OK
2	S5.0	S5.0	CAL2	04/19/17 14:14		OK
3	S10.0	S10.0	CAL3	04/19/17 14:14		OK
4	S100.0	S100.0	CAL4	04/19/17 14:14		OK
5	S250.0	S250.0	CAL5	04/19/17 14:14		OK
6	S500.0	S500.0	CAL6	04/19/17 14:14		OK
7	ICV	ICV	ICV	04/19/17 15:03		OK
8	ICB	ICB	ICB	04/19/17 15:03		OK
9	CCV001	CCV001	CCV	04/19/17 15:03		OK
10	CCB001	CCB001	CCB	04/19/17 15:03		OK
11	PB98307BL	PBS006	MB	04/19/17 15:03		OK
12	I2688-01	MF4C32	SAM	04/19/17 15:03		OK
13	I2688-02	MF4C32D	DUP	04/19/17 15:03		OK
14	I2688-03	MF4C32S	MS	04/19/17 15:03		OK
15	I2688-04	MF4C33	SAM	04/19/17 15:03		OK
16	I2688-05	MF4C34	SAM	04/19/17 15:11		OK
17	I2688-06	MF4C35	SAM	04/19/17 15:11		OK
18	I2688-07	MF4C36	SAM	04/19/17 15:11		OK
19	I2688-08	MF4C37	SAM	04/19/17 15:11		OK
20	I2688-09	MF4C38	SAM	04/19/17 15:11		OK
21	I2688-10	MF4C39	SAM	04/19/17 15:11		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB86969

Review By		Review On				
SubDirectory		LB86969		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP54301,WP54300,WP54299,WP54298,WP54297,WP54296				
ICV Standard		WP54302				
CCV Standard		WP54303				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54338,WP53945,WP51626				
22	I2688-11	MF4C40	SAM	04/19/17 15:11		OK
23	I2688-12	MF4C41	SAM	04/19/17 15:11		OK
24	PB98342BL	PBW005	MB	04/19/17 15:11		OK
25	I2689-01	MF4A01	SAM	04/19/17 15:11		OK
26	I2689-02	MF4A02	SAM	04/19/17 15:11		OK
27	I2689-03	MF4A03	SAM	04/19/17 15:18		OK
28	I2689-04	MF4A04	SAM	04/19/17 15:18		OK
29	PB98317BL	PBS006	MB	04/19/17 15:18		OK
30	I2697-01	MF4B20	SAM	04/19/17 15:18		OK
31	I2697-02	MF4B21	SAM	04/19/17 15:18		OK
32	I2697-03	MF4B22	SAM	04/19/17 15:18		OK
33	I2697-04	MF4B71	SAM	04/19/17 15:18		OK
34	I2697-05	MF4B71D	DUP	04/19/17 15:18		OK
35	I2697-06	MF4B71S	MS	04/19/17 15:18		OK
36	I2697-07	MF4B72	SAM	04/19/17 15:18		OK
37	I2697-08	MF4C59	SAM	04/19/17 15:18		OK
38	I2697-09	MF4C60	SAM	04/19/17 15:25		OK
39	I2697-10	MF4C61	SAM	04/19/17 15:25		OK
40	I2697-11	MF4C62	SAM	04/19/17 15:25		OK
41	I2697-12	MF4C63	SAM	04/19/17 15:25		OK
42	I2697-13	MF4C58	SAM	04/19/17 15:25		OK
43	CCV002	CCV002	CCV	04/19/17 15:25		OK



Instrument ID: CN

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

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Review By		Review On				
SubDirectory		Test : Cyanide				
LB86969						
STD. NAME		STD REF.#				
ICAL Standard		WP54301,WP54300,WP54299,WP54298,WP54297,WP54296				
ICV Standard		WP54302				
CCV Standard		WP54303				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54338,WP53945,WP51626				
44	CCB002	CCB002	CCB	04/19/17 15:25		OK
45	I2697-04A	MF4B71A	PS	04/19/17 15:50		OK
46	CCV003	CCV003	CCV	04/19/17 15:50		OK
47	CCB003	CCB003	CCB	04/19/17 15:50		OK



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C32	SDG No.:	LB86969
Lab Sample ID:	I2688-01	Matrix:	Solid
Level (low/med):	low	% Solid:	94.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.056	0.013	0.51	mg/kg	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C33	SDG No.:	LB86969
Lab Sample ID:	I2688-04	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	U	1	0.056	0.013	0.51	mg/kg	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C34	SDG No.:	LB86969
Lab Sample ID:	I2688-05	Matrix:	Solid
Level (low/med):	low	% Solid:	90.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.059	0.013	0.53	mg/kg	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C35	SDG No.:	LB86969
Lab Sample ID:	I2688-06	Matrix:	Solid
Level (low/med):	low	% Solid:	86.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.062	0.014	0.56	mg/kg	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C36	SDG No.:	LB86969
Lab Sample ID:	I2688-07	Matrix:	Solid
Level (low/med):	low	% Solid:	96.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.055	0.012	0.5	mg/kg	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C37	SDG No.:	LB86969
Lab Sample ID:	I2688-08	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	U	1	0.057	0.013	0.52	mg/kg	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C38	SDG No.:	LB86969
Lab Sample ID:	I2688-09	Matrix:	Solid
Level (low/med):	low	% Solid:	87.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.061	0.014	0.55	mg/kg	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C39	SDG No.:	LB86969
Lab Sample ID:	I2688-10	Matrix:	Solid
Level (low/med):	low	% Solid:	84.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.063	0.014	0.57	mg/kg	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C40	SDG No.:	LB86969
Lab Sample ID:	I2688-11	Matrix:	Solid
Level (low/med):	low	% Solid:	96.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.056	0.013	0.51	mg/kg	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C41	SDG No.:	LB86969
Lab Sample ID:	I2688-12	Matrix:	Solid
Level (low/med):	low	% Solid:	86.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.061	0.014	0.55	mg/kg	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/11/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4A01	SDG No.:	LB86969
Lab Sample ID:	I2689-01	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	U	1	1.5	5	10	ug/L	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/11/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4A02	SDG No.:	LB86969
Lab Sample ID:	I2689-02	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	U	1	1.5	5	10	ug/L	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4A03	SDG No.:	LB86969
Lab Sample ID:	I2689-03	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	U	1	1.5	5	10	ug/L	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4A04	SDG No.:	LB86969
Lab Sample ID:	I2689-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	1.5	5	10	ug/L	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B20	SDG No.:	LB86969
Lab Sample ID:	I2697-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.059	0.013	0.54	mg/kg	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B21	SDG No.:	LB86969
Lab Sample ID:	I2697-02	Matrix:	Solid
Level (low/med):	low	% Solid:	89.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.058	0.013	0.53	mg/kg	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B22	SDG No.:	LB86969
Lab Sample ID:	I2697-03	Matrix:	Solid
Level (low/med):	low	% Solid:	87.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.059	0.013	0.54	mg/kg	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B71	SDG No.:	LB86969
Lab Sample ID:	I2697-04	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	U	1	0.058	0.013	0.53	mg/kg	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B72	SDG No.:	LB86969
Lab Sample ID:	I2697-07	Matrix:	Solid
Level (low/med):	low	% Solid:	88

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.061	0.014	0.56	mg/kg	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4C59	SDG No.:	LB86969
Lab Sample ID:	I2697-08	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	0.082	J	1	0.058	0.013	0.52	mg/kg	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4C60	SDG No.:	LB86969
Lab Sample ID:	I2697-09	Matrix:	Solid
Level (low/med):	low	% Solid:	80

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.067	0.015	0.61	mg/kg	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4C61	SDG No.:	LB86969
Lab Sample ID:	I2697-10	Matrix:	Solid
Level (low/med):	low	% Solid:	85.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.062	0.014	0.56	mg/kg	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4C62	SDG No.:	LB86969
Lab Sample ID:	I2697-11	Matrix:	Solid
Level (low/med):	low	% Solid:	84.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.063	0.014	0.57	mg/kg	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4C63	SDG No.:	LB86969
Lab Sample ID:	I2697-12	Matrix:	Solid
Level (low/med):	low	% Solid:	87.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.062	0.014	0.56	mg/kg	04/18/2017	04/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4C58	SDG No.:	LB86969
Lab Sample ID:	I2697-13	Matrix:	Solid
Level (low/med):	low	% Solid:	86.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.061	0.014	0.56	mg/kg	04/18/2017	04/19/2017	ISM02.4_CN



Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86969	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4C58	SDG No.:	LB86969
Lab Sample ID:	I2697-13	Matrix:	Solid
Level (low/med):	low	% Solid:	86.2

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



Hit Summary Sheet
SW-846

SDG No.:

LB86969

Order ID:

LB86969

Client:

LB86969

Project ID:

LB86969

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	MF4C59								
I2697-08	MF4C59	Solid	Cyanide	0.082	J	0.058	0.26	0.52	mg/kg

**Metals
- 13 -**

SAMPLE PREPARATION SUMMARY

Client: <u>LB86969</u>	SDG No.: <u>LB86969</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB86969</u>	SAS No.: <u>LB86969</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB98307							
PB98307BL	PBS006	MB	SOLID	04/19/2017	1.00	50.0	100.00
I2688-01	MF4C32	SAM	SOLID	04/19/2017	1.04	50.0	94.80
I2688-02	MF4C32D	DUP	SOLID	04/19/2017	1.03	50.0	94.80
I2688-03	MF4C32S	MS	SOLID	04/19/2017	1.02	50.0	94.80
I2688-04	MF4C33	SAM	SOLID	04/19/2017	1.05	50.0	93.50
I2688-05	MF4C34	SAM	SOLID	04/19/2017	1.04	50.0	90.40
I2688-06	MF4C35	SAM	SOLID	04/19/2017	1.03	50.0	86.50
I2688-07	MF4C36	SAM	SOLID	04/19/2017	1.04	50.0	96.80
I2688-08	MF4C37	SAM	SOLID	04/19/2017	1.05	50.0	91.10
I2688-09	MF4C38	SAM	SOLID	04/19/2017	1.04	50.0	87.10
I2688-10	MF4C39	SAM	SOLID	04/19/2017	1.03	50.0	84.40
I2688-11	MF4C40	SAM	SOLID	04/19/2017	1.02	50.0	96.90
I2688-12	MF4C41	SAM	SOLID	04/19/2017	1.04	50.0	86.90

**Metals
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SAMPLE PREPARATION SUMMARY

Client: <u>LB86969</u>	SDG No.: <u>LB86969</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB86969</u>	SAS No.: <u>LB86969</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB98317							
PB98317BL	PBS006	MB	SOLID	04/19/2017	1.00	50.0	100.00
I2697-01	MF4B20	SAM	SOLID	04/19/2017	1.05	50.0	88.20
I2697-02	MF4B21	SAM	SOLID	04/19/2017	1.05	50.0	89.70
I2697-03	MF4B22	SAM	SOLID	04/19/2017	1.06	50.0	87.90
I2697-04	MF4B71	SAM	SOLID	04/19/2017	1.04	50.0	91.60
I2697-05	MF4B71D	DUP	SOLID	04/19/2017	1.04	50.0	91.60
I2697-06	MF4B71S	MS	SOLID	04/19/2017	1.03	50.0	91.60
I2697-07	MF4B72	SAM	SOLID	04/19/2017	1.02	50.0	88.00
I2697-08	MF4C59	SAM	SOLID	04/19/2017	1.04	50.0	91.80
I2697-09	MF4C60	SAM	SOLID	04/19/2017	1.03	50.0	80.00
I2697-10	MF4C61	SAM	SOLID	04/19/2017	1.04	50.0	85.70
I2697-11	MF4C62	SAM	SOLID	04/19/2017	1.03	50.0	84.80
I2697-12	MF4C63	SAM	SOLID	04/19/2017	1.02	50.0	87.10
I2697-13	MF4C58	SAM	SOLID	04/19/2017	1.04	50.0	86.20



Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: LB86969 **SDG No.:** LB86969
Contract: **Lab Code:** CHEM **Method:**
Case No.: LB86969 **SAS No.:** LB86969

						Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date				
Batch Number: PB98342								
PB98342BL	PBW005	MB	WATER	04/19/2017		50.0	50.0	
I2689-01	MF4A01	SAM	WATER	04/19/2017		50.0	50.0	
I2689-02	MF4A02	SAM	WATER	04/19/2017		50.0	50.0	
I2689-03	MF4A03	SAM	WATER	04/19/2017		50.0	50.0	
I2689-04	MF4A04	SAM	WATER	04/19/2017		50.0	50.0	

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB86969 Contract: _____
Lab Code: CHEM Case No.: LB86969 MA No.: _____ SDG No.: LB86969
Instrument ID: CN Start Date: 04/19/2017
Analytical Method: _____ Run Batch: LB86969.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0	0	5	3.8	-24	10	8.9	-11

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB86969 Contract: _____
Lab Code: CHEM Case No.: LB86969 MA No.: _____ SDG No.: LB86969
Instrument ID: CN Start Date: 04/19/2017
Analytical Method: _____ Run Batch: LB86969.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	101	1	250	257	3	500	496	-1



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86969

SDG No.: LB86969

Contract: _____ Lab Code: CHEM

Case No.: LB86969 SAS No.: LB86969

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV	Cyanide	96.9	99	98	0	85 - 115	CN	04/19/2017	15:03	LB86969



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86969

SDG No.: LB86969

Contract: _____ Lab Code: CHEM

Case No.: LB86969

SAS No.: LB86969

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV001	Cyanide	246	250	98	0	85 - 115	CN	04/19/2017	15:03	LB86969
CCV002	Cyanide	251	250	100	0	85 - 115	CN	04/19/2017	15:25	LB86969
CCV003	Cyanide	263	250	105	0	85 - 115	CN	04/19/2017	15:50	LB86969



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86969 **SDG No.:** LB86969
Contract: **Lab Code:** CHEM **Case No.:** LB86969 **SAS No.:** LB86969

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	04/19/2017	15:03	LB86969



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: <u>LB86969</u>		SDG No.: <u>LB86969</u>								
Contract: _____		Lab Code: <u>CHEM</u>		Case No.: <u>LB86969</u>			SAS No.: <u>LB86969</u>			
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	04/19/2017	15:03	LB86969
CCB002	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	04/19/2017	15:25	LB86969
CCB003	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	04/19/2017	15:50	LB86969



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86969

SDG No.: LB86969

Contract: Lab Code: CHEM

Case No.: LB86969

SAS No.: LB86969

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: LB86969

SDG No.: LB86969

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB98307BL	SOLID		Batch Number:		PB98307		Prep Date:		04/18/2017	
	Cyanide	0.055	<0.5	U	0.013	0.5	CN	04/19/2017	15:03	LB86969
Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB98317BL	SOLID		Batch Number:		PB98317		Prep Date:		04/18/2017	
	Cyanide	0.055	<0.5	J	0.013	0.5	CN	04/19/2017	15:18	LB86969
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB98342BL	WATER		Batch Number:		PB98342		Prep Date:		04/18/2017	
	Cyanide	1.5	<10	U	5.0	10	CN	04/19/2017	15:11	LB86969



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB86969 level: low sdg no.: LB86969
contract: lab code: CHEM case no.: LB86969 sas no.: LB86969
matrix: Solid sample id: I2688-01 client id: MF4C32S
Percent Solids for Sample: 94.8 Spiked ID: I2688-03 Percent Solids for Spike Sample: 94.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	4.5		0.51	U	5.2	87		CN



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB86969 level: low sdg no.: LB86969
contract: lab code: CHEM case no.: LB86969 sas no.: LB86969
matrix: Solid sample id: I2697-04 client id: MF4B71S
Percent Solids for Sample: 91.6 Spiked ID: I2697-06 Percent Solids for Spike Sample: 91.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	3.9		0.53	U	5.3	74	*	CN



Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: LB86969

SDG No.: LB86969

Contract:

Lab Code: CHEM

Case No.: LB86969

SAS No.: LB86969

Matrix: Solid

Level: LOW

Client ID: MF4B71A

Sample ID: I2697-04

Spiked ID: I2697-04A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	1.1		0.53	U	1.06	104		CN

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB86969 **Level:** LOW **SDG No.:** LB86969
Contract: **Lab Code:** CHEM **Case No.:** LB86969 **SAS No.:** LB86969
Matrix: Solid **Sample ID:** I2688-01 **Client ID:** MF4C32D
Percent Solids for Sample: 94.8 **Duplicate ID** I2688-02 **Percent Solids for Spike Sample:** 94.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.51	U		0	U		CN

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB86969 **Level:** LOW **SDG No.:** LB86969
Contract: **Lab Code:** CHEM **Case No.:** LB86969 **SAS No.:** LB86969
Matrix: Solid **Sample ID:** I2697-04 **Client ID:** MF4B71D
Percent Solids for Sample: 91.6 **Duplicate ID** I2697-05 **Percent Solids for Spike Sample:** 91.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.53	U		0	U		CN