

Daily Analysis Runlog For Sequence/QC Batch ID # LB92023

Review By		Review On				
SubDirectory		LB92023		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP60131,WP60130,WP60129,WP60128,WP60127,WP60126				
ICV Standard		WP60132				
CCV Standard		WP60133				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP60181,WP59958,WP60150				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	12/07/17 14:45		OK
2	S5.0	S5.0	CAL2	12/07/17 14:45		OK
3	S10.0	S10.0	CAL3	12/07/17 14:45		OK
4	S100.0	S100.0	CAL4	12/07/17 14:45		OK
5	S250.0	S250.0	CAL5	12/07/17 14:45		OK
6	S500.0	S500.0	CAL6	12/07/17 14:45		OK
7	ICV	ICV	ICV	12/07/17 15:36		OK
8	ICB	ICB	ICB	12/07/17 15:36		OK
9	CCV001	CCV001	CCV	12/07/17 15:36		OK
10	CCB001	CCB001	CCB	12/07/17 15:36		OK
11	PB104785BL	PBS006	MB	12/07/17 15:36		OK
12	I6711-01	MBE165	SAM	12/07/17 15:36		OK
13	I6711-02	MBE166	SAM	12/07/17 15:36		OK
14	I6711-03	MBE167	SAM	12/07/17 15:43		OK
15	I6711-04	MBE167D	DUP	12/07/17 15:43		OK
16	I6711-05	MBE167S	MS	12/07/17 15:43		OK
17	I6711-06	MBE168	SAM	12/07/17 15:43		OK
18	I6711-07	MBE169	SAM	12/07/17 15:43		OK
19	I6711-08	MBE170	SAM	12/07/17 15:43		OK
20	I6711-09	MBE171	SAM	12/07/17 15:43		OK
21	I6711-10	MBE172	SAM	12/07/17 15:43		OK

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Review By		Review On				
SubDirectory		LB92023		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP60131,WP60130,WP60129,WP60128,WP60127,WP60126				
ICV Standard		WP60132				
CCV Standard		WP60133				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP60181,WP59958,WP60150				
22	I6711-11	MBE173	SAM	12/07/17 15:43		OK
23	I6711-12	MBE174	SAM	12/07/17 15:43		OK
24	I6711-13	MBE175	SAM	12/07/17 15:43		OK
25	I6711-14	MBE176	SAM	12/07/17 15:51		OK
26	I6711-16	MBE178	SAM	12/07/17 15:51		OK
27	I6711-17	MBE179	SAM	12/07/17 15:51		OK
28	I6711-18	MBE180	SAM	12/07/17 15:51		OK
29	I6711-19	MBE181	SAM	12/07/17 15:51		OK
30	I6711-20	MBE182	SAM	12/07/17 15:51		OK
31	I6711-21	MBE183	SAM	12/07/17 15:51		OK
32	I6711-22	MBE184	SAM	12/07/17 15:51		OK
33	PB104789BL	PBS006	MB	12/07/17 15:51		OK
34	I6712-01	MBE163	SAM	12/07/17 15:51		OK
35	I6712-02	MBE163D	DUP	12/07/17 15:58		OK
36	I6712-03	MBE163S	MS	12/07/17 15:58		OK
37	I6712-04	MBE1A5	SAM	12/07/17 15:58		OK
38	I6712-06	MBE1A7	SAM	12/07/17 15:58		OK
39	I6712-07	MBE1A8	SAM	12/07/17 15:58		OK
40	I6712-08	MBE1A9	SAM	12/07/17 15:58		OK
41	I6712-09	MBE1B1	SAM	12/07/17 15:58		OK
42	I6712-10	MBE1B2	SAM	12/07/17 15:59		OK
43	I6712-11	MBE185	SAM	12/07/17 15:59		OK



Instrument ID : CN

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

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SubDirectory		LB92023		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP60131,WP60130,WP60129,WP60128,WP60127,WP60126				
ICV Standard		WP60132				
CCV Standard		WP60133				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP60181,WP59958,WP60150				
44	I6712-12	MBE1B0	SAM	12/07/17 15:59		OK
45	I6711-15	MBE177	SAM	12/07/17 16:14		OK
46	I6712-05	MBE1A6	SAM	12/07/17 16:16		OK
47	CCV002	CCV002	CCV	12/07/17 16:16		OK
48	CCB002	CCB002	CCB	12/07/17 16:16		OK



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Report of Analysis

Client:		Date Collected:	11/27/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE165	SDG No.:	LB92023
Lab Sample ID:	I6711-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.066	U	1	0.12	0.013	0.53	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/27/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE166	SDG No.:	LB92023
Lab Sample ID:	I6711-02	Matrix:	Solid
Level (low/med):	low	% Solid:	89

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.13	J	1	0.12	0.014	0.55	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/27/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE167	SDG No.:	LB92023
Lab Sample ID:	I6711-03	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	0.005	U	1	0.11	0.013	0.5	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/27/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE168	SDG No.:	LB92023
Lab Sample ID:	I6711-06	Matrix:	Solid
Level (low/med):	low	% Solid:	84.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	U	1	0.12	0.014	0.56	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/28/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE169	SDG No.:	LB92023
Lab Sample ID:	I6711-07	Matrix:	Solid
Level (low/med):	low	% Solid:	81

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.45	J	1	0.13	0.015	0.59	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/28/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE170	SDG No.:	LB92023
Lab Sample ID:	I6711-08	Matrix:	Solid
Level (low/med):	low	% Solid:	87.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	U	1	0.12	0.014	0.56	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Client:		Date Collected:	11/28/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE171	SDG No.:	LB92023
Lab Sample ID:	I6711-09	Matrix:	Solid
Level (low/med):	low	% Solid:	74.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.3	J	1	0.14	0.016	0.65	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/27/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE172	SDG No.:	LB92023
Lab Sample ID:	I6711-10	Matrix:	Solid
Level (low/med):	low	% Solid:	93.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.11	0.013	0.52	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/27/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE173	SDG No.:	LB92023
Lab Sample ID:	I6711-11	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	0.23	J	1	0.12	0.013	0.53	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/27/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE174	SDG No.:	LB92023
Lab Sample ID:	I6711-12	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	0.17	J	1	0.12	0.013	0.52	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/27/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE175	SDG No.:	LB92023
Lab Sample ID:	I6711-13	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	0.11	J	1	0.11	0.012	0.5	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/28/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE176	SDG No.:	LB92023
Lab Sample ID:	I6711-14	Matrix:	Solid
Level (low/med):	low	% Solid:	92.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.05	U	1	0.11	0.013	0.52	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/28/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE177	SDG No.:	LB92023
Lab Sample ID:	I6711-15	Matrix:	Solid
Level (low/med):	low	% Solid:	88.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.13	J	1	0.12	0.013	0.53	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/28/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE178	SDG No.:	LB92023
Lab Sample ID:	I6711-16	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	0.059	U	1	0.11	0.013	0.51	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/28/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE179	SDG No.:	LB92023
Lab Sample ID:	I6711-17	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	0.078	U	1	0.12	0.013	0.53	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/28/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE180	SDG No.:	LB92023
Lab Sample ID:	I6711-18	Matrix:	Solid
Level (low/med):	low	% Solid:	93

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.15	J	1	0.12	0.013	0.52	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/28/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE181	SDG No.:	LB92023
Lab Sample ID:	I6711-19	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	0.12	J	1	0.12	0.014	0.54	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/28/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE182	SDG No.:	LB92023
Lab Sample ID:	I6711-20	Matrix:	Solid
Level (low/med):	low	% Solid:	92.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	U	1	0.12	0.013	0.53	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/28/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE183	SDG No.:	LB92023
Lab Sample ID:	I6711-21	Matrix:	Solid
Level (low/med):	low	% Solid:	89.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.13	J	1	0.12	0.013	0.54	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/28/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE184	SDG No.:	LB92023
Lab Sample ID:	I6711-22	Matrix:	Solid
Level (low/med):	low	% Solid:	75.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.26	J	1	0.14	0.016	0.64	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/28/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE163	SDG No.:	LB92023
Lab Sample ID:	I6712-01	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	0.037	U	1	0.12	0.013	0.53	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/28/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE1A5	SDG No.:	LB92023
Lab Sample ID:	I6712-04	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	0.039	U	1	0.12	0.013	0.53	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/28/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE1A6	SDG No.:	LB92023
Lab Sample ID:	I6712-05	Matrix:	Solid
Level (low/med):	low	% Solid:	93.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.11	0.013	0.51	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/28/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE1A7	SDG No.:	LB92023
Lab Sample ID:	I6712-06	Matrix:	Solid
Level (low/med):	low	% Solid:	89.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.085	U	1	0.12	0.013	0.53	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/29/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE1A8	SDG No.:	LB92023
Lab Sample ID:	I6712-07	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	0.062	U	1	0.12	0.013	0.53	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/29/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE1A9	SDG No.:	LB92023
Lab Sample ID:	I6712-08	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	0.068	U	1	0.11	0.013	0.52	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/27/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE1B1	SDG No.:	LB92023
Lab Sample ID:	I6712-09	Matrix:	Solid
Level (low/med):	low	% Solid:	94.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.037	U	1	0.11	0.013	0.52	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/28/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE1B2	SDG No.:	LB92023
Lab Sample ID:	I6712-10	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	0.12	J	1	0.12	0.013	0.54	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/28/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE185	SDG No.:	LB92023
Lab Sample ID:	I6712-11	Matrix:	Solid
Level (low/med):	low	% Solid:	73.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.25	J	1	0.14	0.016	0.64	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/27/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE1B0	SDG No.:	LB92023
Lab Sample ID:	I6712-12	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	0.062	U	1	0.11	0.012	0.48	mg/kg	12/06/2017	12/07/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	11/27/2017 12:00:00 AM
Project:	LB92023	Date Received:	12/2/2017 12:00:00 AM
Client Sample ID:	MBE1B0	SDG No.:	LB92023
Lab Sample ID:	I6712-12	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.
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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



Start Date: _____ **End Date:** _____

[illegible]



Start Date: _____ **End Date:** _____

[illegible]

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB92023 Contract: _____
Lab Code: CHEM Case No.: LB92023 MA No.: _____ SDG No.: LB92023
Instrument ID: CN Start Date: 12/07/2017
Analytical Method: _____ Run Batch: LB92023.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0.49	0	5	5.5	10	10	10.2	2

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB92023 Contract: _____
Lab Code: CHEM Case No.: LB92023 MA No.: _____ SDG No.: LB92023
Instrument ID: CN Start Date: 12/07/2017
Analytical Method: _____ Run Batch: LB92023.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	100	0	250	247	-1	500	501	0



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92023

SDG No.: LB92023

Contract: _____

Lab Code: CHEM

Case No.: LB92023

SAS No.: LB92023

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	95.5	99	96	0	85 - 115	CN	12/07/2017	15:36	LB92023



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92023

SDG No.: LB92023

Contract: _____

Lab Code: CHEM

Case No.: LB92023

SAS No.: LB92023

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	243	250	97	0	85 - 115	CN	12/07/2017	15:36	LB92023
CCV002	Cyanide	259	250	104	0	85 - 115	CN	12/07/2017	16:16	LB92023



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92023 **SDG No.:** LB92023
Contract: **Lab Code:** CHEM **Case No.:** LB92023 **SAS No.:** LB92023

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB	Cyanide	1.0	+/-10.0	U	5.0	10.0	CN	12/07/2017	15:36	LB92023



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92023

SDG No.: LB92023

Contract: Lab Code: CHEM

Case No.: LB92023

SAS No.: LB92023

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	1.2	+/-10.0	U	5.0	10.0	CN	12/07/2017	15:36	LB92023
CCB002	Cyanide	0.96	+/-10.0	U	5.0	10.0	CN	12/07/2017	16:16	LB92023



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92023

SDG No.: LB92023

Contract: Lab Code: CHEM

Case No.: LB92023

SAS No.: LB92023

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: LB92023

SDG No.: LB92023

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB104785BL	SOLID		Batch Number:		PB104785		Prep Date:		12/06/2017	
	Cyanide	0.032	<0.49	U	0.012	0.49	CN	12/07/2017	15:36	LB92023
Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB104789BL	SOLID		Batch Number:		PB104789		Prep Date:		12/06/2017	
	Cyanide	0.023	<0.5	U	0.012	0.5	CN	12/07/2017	15:51	LB92023



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB92023 level: low sdg no.: LB92023
contract: lab code: CHEM case no.: LB92023 sas no.: LB92023
matrix: Solid sample id: I6711-03 client id: MBE167S
Percent Solids for Sample: 96.8 Spiked ID: I6711-05 Percent Solids for Spike Sample: 96.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	4.2		0.5	U	5	84		CN



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB92023 level: low sdg no.: LB92023
contract: lab code: CHEM case no.: LB92023 sas no.: LB92023
matrix: Solid sample id: I6712-01 client id: MBE163S
Percent Solids for Sample: 91.8 Spiked ID: I6712-03 Percent Solids for Spike Sample: 91.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	4.5		0.53	U	5.2	87		CN

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92023 **Level:** LOW **SDG No.:** LB92023
Contract: **Lab Code:** CHEM **Case No.:** LB92023 **SAS No.:** LB92023
Matrix: Solid **Sample ID:** I6711-03 **Client ID:** MBE167D
Percent Solids for Sample: 96.8 **Duplicate ID** I6711-04 **Percent Solids for Spike Sample:** 96.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.5	U	0.064	U			CN



Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92023 Level: LOW SDG No.: LB92023
Contract: _____ Lab Code: CHEM Case No.: LB92023 SAS No.: LB92023
Matrix: Solid Sample ID: I6712-01 Client ID: MBE163D
Percent Solids for Sample: 91.8 Duplicate ID I6712-02 Percent Solids for Spike Sample: 91.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.53	U	0.019	U			CN

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”



Hit Summary Sheet
SW-846

SDG No.: LB92023

Order ID: LB92023

Client: LB92023

Project ID: LB92023

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : I6711-02	MBE166 MBE166	Solid	Cyanide	0.130	J	0.12	0.275	0.55	mg/kg
Client ID : I6711-07	MBE169 MBE169	Solid	Cyanide	0.450	J	0.13	0.295	0.59	mg/kg
Client ID : I6711-09	MBE171 MBE171	Solid	Cyanide	0.300	J	0.14	0.325	0.65	mg/kg
Client ID : I6711-10	MBE172 MBE172	Solid	Cyanide	0.160	J	0.11	0.26	0.52	mg/kg
Client ID : I6711-11	MBE173 MBE173	Solid	Cyanide	0.230	J	0.12	0.265	0.53	mg/kg
Client ID : I6711-12	MBE174 MBE174	Solid	Cyanide	0.170	J	0.12	0.26	0.52	mg/kg
Client ID : I6711-13	MBE175 MBE175	Solid	Cyanide	0.110	J	0.11	0.25	0.5	mg/kg
Client ID : I6711-15	MBE177 MBE177	Solid	Cyanide	0.130	J	0.12	0.265	0.53	mg/kg
Client ID : I6711-18	MBE180 MBE180	Solid	Cyanide	0.150	J	0.12	0.26	0.52	mg/kg
Client ID : I6711-19	MBE181 MBE181	Solid	Cyanide	0.120	J	0.12	0.27	0.54	mg/kg
Client ID : I6711-21	MBE183 MBE183	Solid	Cyanide	0.130	J	0.12	0.27	0.54	mg/kg
Client ID : I6711-22	MBE184 MBE184	Solid	Cyanide	0.260	J	0.14	0.32	0.64	mg/kg
Client ID : I6712-10	MBE1B2 MBE1B2	Solid	Cyanide	0.120	J	0.12	0.27	0.54	mg/kg
Client ID : I6712-11	MBE185 MBE185	Solid	Cyanide	0.250	J	0.14	0.32	0.64	mg/kg



Metals
- 10 -

Client: LB92023

SDG No.: LB92023

Contract:

Lab Code: CHEM

Case No.: LB92023

SAS No.: LB92023

Instrument ID: P4

Preparation Method:

Analyte	Wave- length (nm)	MDL	LOD	PQL	Date:
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LIQUID

Method: Cyanide	578.00
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SOLIDS

Method: Cyanide	578.00
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Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: LB92023

SDG No.: LB92023

Contract:

Lab Code: CHEM

Method:

Case No.: LB92023

SAS No.: LB92023

					Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date			
Batch Number: PB104785							
PB104785BL	PBS006	MB	SOLID	12/07/2017	1.02	50.0	100.00
I6711-01	MBE165	SAM	SOLID	12/07/2017	1.04	50.0	90.30
I6711-02	MBE166	SAM	SOLID	12/07/2017	1.02	50.0	89.00
I6711-03	MBE167	SAM	SOLID	12/07/2017	1.03	50.0	96.80
I6711-04	MBE167D	DUP	SOLID	12/07/2017	1.01	50.0	96.80
I6711-05	MBE167S	MS	SOLID	12/07/2017	1.04	50.0	96.80
I6711-06	MBE168	SAM	SOLID	12/07/2017	1.06	50.0	84.70
I6711-07	MBE169	SAM	SOLID	12/07/2017	1.04	50.0	81.00
I6711-08	MBE170	SAM	SOLID	12/07/2017	1.02	50.0	87.20
I6711-09	MBE171	SAM	SOLID	12/07/2017	1.03	50.0	74.60
I6711-10	MBE172	SAM	SOLID	12/07/2017	1.04	50.0	93.10
I6711-11	MBE173	SAM	SOLID	12/07/2017	1.03	50.0	91.20
I6711-12	MBE174	SAM	SOLID	12/07/2017	1.02	50.0	93.50
I6711-13	MBE175	SAM	SOLID	12/07/2017	1.06	50.0	95.30
I6711-14	MBE176	SAM	SOLID	12/07/2017	1.05	50.0	92.40
I6711-16	MBE178	SAM	SOLID	12/07/2017	1.04	50.0	93.50
I6711-17	MBE179	SAM	SOLID	12/07/2017	1.05	50.0	90.50
I6711-18	MBE180	SAM	SOLID	12/07/2017	1.03	50.0	93.00
I6711-19	MBE181	SAM	SOLID	12/07/2017	1.03	50.0	89.80
I6711-20	MBE182	SAM	SOLID	12/07/2017	1.02	50.0	92.90
I6711-21	MBE183	SAM	SOLID	12/07/2017	1.04	50.0	89.60
I6711-22	MBE184	SAM	SOLID	12/07/2017	1.03	50.0	75.40
I6711-15	MBE177	SAM	SOLID	12/07/2017	1.07	50.0	88.90

Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: <u>LB92023</u>	SDG No.: <u>LB92023</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB92023</u>	SAS No.: <u>LB92023</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB104789							
PB104789BL	PBS006	MB	SOLID	12/07/2017	1.01	50.0	100.00
I6712-01	MBE163	SAM	SOLID	12/07/2017	1.03	50.0	91.80
I6712-02	MBE163D	DUP	SOLID	12/07/2017	1.03	50.0	91.80
I6712-03	MBE163S	MS	SOLID	12/07/2017	1.04	50.0	91.80
I6712-04	MBE1A5	SAM	SOLID	12/07/2017	1.02	50.0	92.20
I6712-06	MBE1A7	SAM	SOLID	12/07/2017	1.06	50.0	89.60
I6712-07	MBE1A8	SAM	SOLID	12/07/2017	1.02	50.0	92.60
I6712-08	MBE1A9	SAM	SOLID	12/07/2017	1.03	50.0	93.90
I6712-09	MBE1B1	SAM	SOLID	12/07/2017	1.02	50.0	94.60
I6712-10	MBE1B2	SAM	SOLID	12/07/2017	1.01	50.0	92.00
I6712-11	MBE185	SAM	SOLID	12/07/2017	1.07	50.0	73.10
I6712-12	MBE1B0	SAM	SOLID	12/07/2017	1.08	50.0	96.90
I6712-05	MBE1A6	SAM	SOLID	12/07/2017	1.04	50.0	93.60