

Daily Analysis Runlog For Sequence/QC Batch ID # LB91716

Review By

Review On

SubDirectory

LB91716

Test :

Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP59771,WP59770,WP59769,WP59768,WP59767,WP59766
ICV Standard	WP59772
CCV Standard	WP59773
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP55836,WP59797,WP58653

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	11/21/17 08:40		OK
2	S5.0	S5.0	CAL2	11/21/17 08:40		OK
3	S10.0	S10.0	CAL3	11/21/17 08:40		OK
4	S100.0	S100.0	CAL4	11/21/17 08:40		OK
5	S250.0	S250.0	CAL5	11/21/17 08:40		OK
6	S500.0	S500.0	CAL6	11/21/17 08:40		OK
7	ICV	ICV	ICV	11/21/17 09:47		OK
8	ICB	ICB	ICB	11/21/17 09:47		OK
9	CCV001	CCV001	CCV	11/21/17 09:47		OK
10	CCB001	CCB001	CCB	11/21/17 09:47		OK
11	PB104425BL	PBS006	MB	11/21/17 09:47		OK
12	I6515-01	MC0AA0	SAM	11/21/17 09:47		OK
13	I6515-02	MC0AA0D	DUP	11/21/17 09:47		OK
14	I6515-03	MC0AA0S	MS	11/21/17 09:54		OK
15	I6515-04	MC0AA1	SAM	11/21/17 09:54		OK
16	I6515-05	MC0AA2	SAM	11/21/17 09:54		OK
17	I6515-06	MC0AA3	SAM	11/21/17 09:54		OK
18	I6515-07	MC0AA4	SAM	11/21/17 09:54		OK
19	I6515-08	MC0AA6	SAM	11/21/17 09:54		OK
20	I6515-09	MC0AA7	SAM	11/21/17 09:55		OK
21	I6515-10	MC0AA8	SAM	11/21/17 09:55		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB91716

Review By		Review On				
SubDirectory		LB91716		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59771,WP59770,WP59769,WP59768,WP59767,WP59766				
ICV Standard		WP59772				
CCV Standard		WP59773				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55836,WP59797,WP58653				
22	I6515-12	MC0AB0	SAM	11/21/17 09:55		OK
23	I6515-13	MC0AB1	SAM	11/21/17 09:55		OK
24	I6515-14	MC0AB2	SAM	11/21/17 10:02		OK
25	I6515-15	MC0AB3	SAM	11/21/17 10:02		OK
26	I6515-16	MC0AB4	SAM	11/21/17 10:02		OK
27	I6515-17	MC0AB5	SAM	11/21/17 10:02		OK
28	I6515-18	MC0AB6	SAM	11/21/17 10:02		OK
29	I6515-19	MC0AB7	SAM	11/21/17 10:02		OK
30	I6515-20	MC0AB8	SAM	11/21/17 10:02		OK
31	PB104435BL	PBS006	MB	11/21/17 10:02		OK
32	I6516-04	MC0AC0	SAM	11/21/17 10:02		OK
33	I6516-05	MC0AC0D	DUP	11/21/17 10:02		OK
34	I6516-06	MC0AC0S	MS	11/21/17 10:02		OK
35	I6516-07	MC0AC1	SAM	11/21/17 10:10		OK
36	I6516-08	MC0AC2	SAM	11/21/17 10:10		OK
37	I6516-09	MC0AC3	SAM	11/21/17 10:10		OK
38	I6516-10	MC0AC4	SAM	11/21/17 10:10		OK
39	I6516-11	MC0AC6	SAM	11/21/17 10:10		OK
40	I6516-12	MC0AC7	SAM	11/21/17 10:10		OK
41	I6516-13	MC0AC8	SAM	11/21/17 10:10		OK
42	I6516-14	MC0AC9	SAM	11/21/17 10:10		OK
43	I6516-15	MC0AD0	SAM	11/21/17 10:10		OK



Instrument ID : CN

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

Daily Analysis Runlog For Sequence/QC Batch ID # LB91716

Review By		Review On				
SubDirectory		LB91716		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59771,WP59770,WP59769,WP59768,WP59767,WP59766				
ICV Standard		WP59772				
CCV Standard		WP59773				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55836,WP59797,WP58653				
44	I6515-11	MC0AA9	SAM	11/21/17 10:18		OK
45	CCV002	CCV002	CCV	11/21/17 10:20		OK
46	CCB002	CCB002	CCB	11/21/17 10:21		OK



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

Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AA0	SDG No.:	LB91716
Lab Sample ID:	I6515-01	Matrix:	Solid
Level (low/med):	low	% Solid:	83.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.034	U	1	0.064	0.015	0.59	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AA1	SDG No.:	LB91716
Lab Sample ID:	I6515-04	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	0.036	U	1	0.058	0.013	0.53	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AA2	SDG No.:	LB91716
Lab Sample ID:	I6515-05	Matrix:	Solid
Level (low/med):	low	% Solid:	91.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.063	J	1	0.058	0.013	0.53	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AA3	SDG No.:	LB91716
Lab Sample ID:	I6515-06	Matrix:	Solid
Level (low/med):	low	% Solid:	58.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.045	U	1	0.093	0.021	0.85	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AA4	SDG No.:	LB91716
Lab Sample ID:	I6515-07	Matrix:	Solid
Level (low/med):	low	% Solid:	38.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.32	J	1	0.14	0.031	1.2	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AA6	SDG No.:	LB91716
Lab Sample ID:	I6515-08	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	0.066	J	1	0.064	0.015	0.58	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AA7	SDG No.:	LB91716
Lab Sample ID:	I6515-09	Matrix:	Solid
Level (low/med):	low	% Solid:	78.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.062	U	1	0.067	0.015	0.61	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AA8	SDG No.:	LB91716
Lab Sample ID:	I6515-10	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	0.07	J	1	0.07	0.016	0.64	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AA9	SDG No.:	LB91716
Lab Sample ID:	I6515-11	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	0.091	J	1	0.07	0.016	0.64	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AB0	SDG No.:	LB91716
Lab Sample ID:	I6515-12	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	0.09	J	1	0.071	0.016	0.65	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AB1	SDG No.:	LB91716
Lab Sample ID:	I6515-13	Matrix:	Solid
Level (low/med):	low	% Solid:	69.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.15	J	1	0.076	0.017	0.69	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AB2	SDG No.:	LB91716
Lab Sample ID:	I6515-14	Matrix:	Solid
Level (low/med):	low	% Solid:	73.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.26	J	1	0.073	0.017	0.66	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AB3	SDG No.:	LB91716
Lab Sample ID:	I6515-15	Matrix:	Solid
Level (low/med):	low	% Solid:	67.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.23	J	1	0.08	0.018	0.73	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AB4	SDG No.:	LB91716
Lab Sample ID:	I6515-16	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	0.12	J	1	0.07	0.016	0.64	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AB5	SDG No.:	LB91716
Lab Sample ID:	I6515-17	Matrix:	Solid
Level (low/med):	low	% Solid:	66.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.031	U	1	0.078	0.018	0.71	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AB6	SDG No.:	LB91716
Lab Sample ID:	I6515-18	Matrix:	Solid
Level (low/med):	low	% Solid:	70.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.25	J	1	0.074	0.017	0.67	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AB7	SDG No.:	LB91716
Lab Sample ID:	I6515-19	Matrix:	Solid
Level (low/med):	low	% Solid:	58.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.21	J	1	0.091	0.021	0.82	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AB8	SDG No.:	LB91716
Lab Sample ID:	I6515-20	Matrix:	Solid
Level (low/med):	low	% Solid:	72.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	J	1	0.072	0.016	0.65	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AC0	SDG No.:	LB91716
Lab Sample ID:	I6516-04	Matrix:	Solid
Level (low/med):	low	% Solid:	90.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.023	U	1	0.059	0.013	0.53	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AC1	SDG No.:	LB91716
Lab Sample ID:	I6516-07	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	0.06	0.014	0.55	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AC2	SDG No.:	LB91716
Lab Sample ID:	I6516-08	Matrix:	Solid
Level (low/med):	low	% Solid:	85.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.061	U	1	0.064	0.014	0.58	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AC3	SDG No.:	LB91716
Lab Sample ID:	I6516-09	Matrix:	Solid
Level (low/med):	low	% Solid:	75.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.025	U	1	0.069	0.016	0.63	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AC4	SDG No.:	LB91716
Lab Sample ID:	I6516-10	Matrix:	Solid
Level (low/med):	low	% Solid:	73.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.013	U	1	0.074	0.017	0.67	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AC6	SDG No.:	LB91716
Lab Sample ID:	I6516-11	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	0.026	U	1	0.058	0.013	0.53	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AC7	SDG No.:	LB91716
Lab Sample ID:	I6516-12	Matrix:	Solid
Level (low/med):	low	% Solid:	77.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.063	U	1	0.069	0.016	0.62	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AC8	SDG No.:	LB91716
Lab Sample ID:	I6516-13	Matrix:	Solid
Level (low/med):	low	% Solid:	69.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.004	U	1	0.075	0.017	0.68	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AC9	SDG No.:	LB91716
Lab Sample ID:	I6516-14	Matrix:	Solid
Level (low/med):	low	% Solid:	53.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.068	U	1	0.1	0.023	0.91	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AD0	SDG No.:	LB91716
Lab Sample ID:	I6516-15	Matrix:	Solid
Level (low/med):	low	% Solid:	46.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.071	U	1	0.11	0.025	1	mg/kg	11/20/2017	11/21/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91716	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	MC0AD0	SDG No.:	LB91716
Lab Sample ID:	I6516-15	Matrix:	Solid
Level (low/med):	low	% Solid:	46.5

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

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

**Metals
- 13 -**

SAMPLE PREPARATION SUMMARY

Client: <u>LB91716</u>	SDG No.: <u>LB91716</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB91716</u>	SAS No.: <u>LB91716</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB104425							
PB104425BL	PBS006	MB	SOLID	11/21/2017	1.03	50.0	100.00
I6515-01	MC0AA0	SAM	SOLID	11/21/2017	1.02	50.0	83.70
I6515-02	MC0AA0D	DUP	SOLID	11/21/2017	1.03	50.0	83.70
I6515-03	MC0AA0S	MS	SOLID	11/21/2017	1.02	50.0	83.70
I6515-04	MC0AA1	SAM	SOLID	11/21/2017	1.05	50.0	90.30
I6515-05	MC0AA2	SAM	SOLID	11/21/2017	1.04	50.0	91.40
I6515-06	MC0AA3	SAM	SOLID	11/21/2017	1.01	50.0	58.40
I6515-07	MC0AA4	SAM	SOLID	11/21/2017	1.06	50.0	38.10
I6515-08	MC0AA6	SAM	SOLID	11/21/2017	1.00	50.0	85.70
I6515-09	MC0AA7	SAM	SOLID	11/21/2017	1.04	50.0	78.40
I6515-10	MC0AA8	SAM	SOLID	11/21/2017	1.01	50.0	78.00
I6515-12	MC0AB0	SAM	SOLID	11/21/2017	1.06	50.0	73.10
I6515-13	MC0AB1	SAM	SOLID	11/21/2017	1.04	50.0	69.90
I6515-14	MC0AB2	SAM	SOLID	11/21/2017	1.03	50.0	73.30
I6515-15	MC0AB3	SAM	SOLID	11/21/2017	1.02	50.0	67.10
I6515-16	MC0AB4	SAM	SOLID	11/21/2017	1.01	50.0	77.30
I6515-17	MC0AB5	SAM	SOLID	11/21/2017	1.06	50.0	66.80
I6515-18	MC0AB6	SAM	SOLID	11/21/2017	1.05	50.0	70.60
I6515-19	MC0AB7	SAM	SOLID	11/21/2017	1.04	50.0	58.40
I6515-20	MC0AB8	SAM	SOLID	11/21/2017	1.06	50.0	72.10
I6515-11	MC0AA9	SAM	SOLID	11/21/2017	1.05	50.0	74.60



Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: LB91716 **SDG No.:** LB91716
Contract: **Lab Code:** CHEM **Method:**
Case No.: LB91716 **SAS No.:** LB91716

					Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date			
Batch Number: PB104435							
PB104435BL	PBS006	MB	SOLID	11/21/2017	1.04	50.0	100.00
I6516-04	MC0AC0	SAM	SOLID	11/21/2017	1.03	50.0	90.90
I6516-05	MC0AC0D	DUP	SOLID	11/21/2017	1.03	50.0	90.90
I6516-06	MC0AC0S	MS	SOLID	11/21/2017	1.02	50.0	90.90
I6516-07	MC0AC1	SAM	SOLID	11/21/2017	1.05	50.0	87.10
I6516-08	MC0AC2	SAM	SOLID	11/21/2017	1.01	50.0	85.60
I6516-09	MC0AC3	SAM	SOLID	11/21/2017	1.06	50.0	75.20
I6516-10	MC0AC4	SAM	SOLID	11/21/2017	1.02	50.0	73.30
I6516-11	MC0AC6	SAM	SOLID	11/21/2017	1.04	50.0	90.50
I6516-12	MC0AC7	SAM	SOLID	11/21/2017	1.03	50.0	77.80
I6516-13	MC0AC8	SAM	SOLID	11/21/2017	1.05	50.0	69.60
I6516-14	MC0AC9	SAM	SOLID	11/21/2017	1.02	50.0	53.70
I6516-15	MC0AD0	SAM	SOLID	11/21/2017	1.06	50.0	46.50



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

[illegible]



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

[illegible]

Metals**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB91716**SDG No.:** LB91716**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB91716**SAS No.:** LB91716**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	93.8	99	95	0	85 - 115	CN	11/21/2017	09:47	LB91716



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB91716

SDG No.: LB91716

Contract: _____ Lab Code: CHEM

Case No.: LB91716

SAS No.: LB91716

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	244	250	98	0	85 - 115	CN	11/21/2017	09:47	LB91716
CCV002	Cyanide	251	250	100	0	85 - 115	CN	11/21/2017	10:20	LB91716



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91716 **SDG No.:** LB91716
Contract: **Lab Code:** CHEM **Case No.:** LB91716 **SAS No.:** LB91716

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB	Cyanide	0.73	+/-10.0	U	5.0	10.0	CN	11/21/2017	09:47	LB91716



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91716

SDG No.: LB91716

Contract: _____

Lab Code: CHEM

Case No.: LB91716

SAS No.: LB91716

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	0.68	+/-10.0	U	5.0	10.0	CN	11/21/2017	09:47	LB91716
CCB002	Cyanide	6.0	+/-10.0	J	5.0	10.0	CN	11/21/2017	10:21	LB91716



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91716

SDG No.: LB91716

Contract: Lab Code: CHEM

Case No.: LB91716

SAS No.: LB91716

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
-----------	---------	----------------	---------------------	--------------	-----	------	---	------------------	------------------	---------------



Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: LB91716

SDG No.: LB91716

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB104425BL	SOLID		Batch Number:		PB104425		Prep Date:		11/20/2017	
	Cyanide	0.017	<0.49	U	0.012	0.49	CN	11/21/2017	09:47	LB91716
Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB104435BL	SOLID		Batch Number:		PB104435		Prep Date:		11/20/2017	
	Cyanide	0.01	<0.48	U	0.012	0.48	CN	11/21/2017	10:02	LB91716



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB91716 level: low sdg no.: LB91716
contract: lab code: CHEM case no.: LB91716 sas no.: LB91716
matrix: Solid sample id: I6515-01 client id: MC0AA0S
Percent Solids for Sample: 83.7 Spiked ID: I6515-03 Percent Solids for Spike Sample: 83.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	4.6		0.59	U	5.9	78		CN



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB91716 level: low sdg no.: LB91716
contract: lab code: CHEM case no.: LB91716 sas no.: LB91716
matrix: Solid sample id: I6516-04 client id: MC0AC0S
Percent Solids for Sample: 90.9 Spiked ID: I6516-06 Percent Solids for Spike Sample: 90.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	4.4		0.53	U	5.4	81		CN

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91716 **Level:** LOW **SDG No.:** LB91716
Contract: **Lab Code:** CHEM **Case No.:** LB91716 **SAS No.:** LB91716
Matrix: Solid **Sample ID:** I6515-01 **Client ID:** MC0AA0D
Percent Solids for Sample: 83.7 **Duplicate ID** I6515-02 **Percent Solids for Spike Sample:** 83.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.59	U	0.021	U			CN

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91716 **Level:** LOW **SDG No.:** LB91716
Contract: **Lab Code:** CHEM **Case No.:** LB91716 **SAS No.:** LB91716
Matrix: Solid **Sample ID:** I6516-04 **Client ID:** MC0AC0D
Percent Solids for Sample: 90.9 **Duplicate ID** I6516-05 **Percent Solids for Spike Sample:** 90.9

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



Hit Summary Sheet
SW-846

SDG No.: LB91716

Order ID: LB91716

Client: LB91716

Project ID: LB91716

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : I6515-05	MC0AA2 MC0AA2	Solid	Cyanide	0.063	J	0.058	0.265	0.53	mg/kg
Client ID : I6515-07	MC0AA4 MC0AA4	Solid	Cyanide	0.320	J	0.14	0.6	1.2	mg/kg
Client ID : I6515-08	MC0AA6 MC0AA6	Solid	Cyanide	0.066	J	0.064	0.29	0.58	mg/kg
Client ID : I6515-10	MC0AA8 MC0AA8	Solid	Cyanide	0.070	J	0.07	0.32	0.64	mg/kg
Client ID : I6515-11	MC0AA9 MC0AA9	Solid	Cyanide	0.091	J	0.07	0.32	0.64	mg/kg
Client ID : I6515-12	MC0AB0 MC0AB0	Solid	Cyanide	0.090	J	0.071	0.325	0.65	mg/kg
Client ID : I6515-13	MC0AB1 MC0AB1	Solid	Cyanide	0.150	J	0.076	0.345	0.69	mg/kg
Client ID : I6515-14	MC0AB2 MC0AB2	Solid	Cyanide	0.260	J	0.073	0.33	0.66	mg/kg
Client ID : I6515-15	MC0AB3 MC0AB3	Solid	Cyanide	0.230	J	0.08	0.365	0.73	mg/kg
Client ID : I6515-16	MC0AB4 MC0AB4	Solid	Cyanide	0.120	J	0.07	0.32	0.64	mg/kg
Client ID : I6515-18	MC0AB6 MC0AB6	Solid	Cyanide	0.250	J	0.074	0.335	0.67	mg/kg
Client ID : I6515-19	MC0AB7 MC0AB7	Solid	Cyanide	0.210	J	0.091	0.41	0.82	mg/kg
Client ID : I6515-20	MC0AB8 MC0AB8	Solid	Cyanide	0.100	J	0.072	0.325	0.65	mg/kg



Metals
- 10 -

Client: LB91716

SDG No.: LB91716

Contract:

Lab Code: CHEM

Case No.: LB91716

SAS No.: LB91716

Instrument ID: P4

Preparation Method:

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

LIQUID

Method: Cyanide	578.00
--------------------	--------

SOLIDS

Method: Cyanide	578.00
--------------------	--------