

Daily Analysis Runlog For Sequence/QC Batch ID # LB90938

Review By

Review On

SubDirectory

LB90938

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP58807,WP58806,WP58805,WP58804,WP58803,WP58802				
ICV Standard		WP58808				
CCV Standard		WP58804				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58889,WP55836,WP58653				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	10/19/17 09:51		OK
2	S5.0	S5.0	CAL2	10/19/17 09:51		OK
3	S10.0	S10.0	CAL3	10/19/17 09:51		OK
4	S100.0	S100.0	CAL4	10/19/17 09:51		OK
5	S250.0	S250.0	CAL5	10/19/17 09:51		OK
6	S500.0	S500.0	CAL6	10/19/17 09:51		OK
7	ICV	ICV	ICV	10/19/17 11:19		OK
8	ICB	ICB	ICB	10/19/17 11:19		OK
9	CCV001	CCV001	CCV	10/19/17 11:19		OK
10	CCB001	CCB001	CCB	10/19/17 11:19		OK
11	PB103345BL	PBS006	MB	10/19/17 11:19		OK
12	I5873-01	B-19(2-4)_101117	SAM	10/19/17 11:19		OK
13	I5873-02	B-13(0-1)_101117	SAM	10/19/17 11:25		OK
14	I5873-03	B-13(1-3)_101117	SAM	10/19/17 11:25		OK
15	I5873-04	B-16(0-1)_101217	SAM	10/19/17 11:25		OK
16	I5873-05	B-16(7-7.75)_101211	SAM	10/19/17 11:25		OK
17	I5873-06	B-18(0-1)_101217	SAM	10/19/17 11:25		OK
18	I5873-07	B-18(5-6)_101217	SAM	10/19/17 11:25		OK
19	I5902-01	B-5(0.5-1.5)-101317	SAM	10/19/17 11:25		OK
20	I5902-02	B-5(5-6.5)-101317	SAM	10/19/17 11:25		OK
21	I5902-03	B-12(0-1)-101317	SAM	10/19/17 11:37		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB90938

Review By		Review On				
SubDirectory		LB90938		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58807,WP58806,WP58805,WP58804,WP58803,WP58802				
ICV Standard		WP58808				
CCV Standard		WP58804				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58889,WP55836,WP58653				
22	I5902-04	B-12(1-3)-101317	SAM	10/19/17 11:41		OK
23	I5902-05	B-65(0.5-1.5)-101317	SAM	10/19/17 11:41		OK
24	I5902-06	B-65(1.5-2.7)-101317	SAM	10/19/17 11:41		OK
25	PB103403BL	PBS006	MB	10/19/17 11:41		OK
26	I5933-01	B-9(0-1)_101617	SAM	10/19/17 11:48		OK
27	I5933-02	B-9(5-6)_101617	SAM	10/19/17 11:48		OK
28	I5958-01	B-71(3-5)-101617	SAM	10/19/17 11:48		OK
29	I5958-02	B-10(3-5)-101617	SAM	10/19/17 11:48		OK
30	I5958-03	B-17(0.25-1.25)-101717	SAM	10/19/17 11:48		OK
31	I5958-04	B-17(5-6.5)-101717	SAM	10/19/17 11:48		OK
32	I5958-05	B-15(0.25-1.25)-101717	SAM	10/19/17 11:48		OK
33	I5958-06	B-15(0.25-1.25)-101717	DUP	10/19/17 11:48		OK
34	I5958-07	B-15(0.25-1.25)-101717	MS	10/19/17 11:48		OK
35	I5958-08	B-15(5-6)-101717	SAM	10/19/17 11:48		OK
36	I5873-01RE	B-19(2-4)_101117	SAM	10/19/17 11:55	Not Use	Not Ok
37	I5958-09	B-14(0-1)-101717	SAM	10/19/17 11:55		OK
38	I5958-10	DUP-6	SAM	10/19/17 11:55		OK
39	I5958-11	B-14(7-7.5)-101717	SAM	10/19/17 11:55		OK
40	I5958-13	B-6(3.5-4.5)-101717	SAM	10/19/17 11:55		OK
41	I5958-14	B-6(5-5.5)-101717	SAM	10/19/17 11:55		OK
42	CCV002	CCV002	CCV	10/19/17 11:55		OK
43	CCB002	CCB002	CCB	10/19/17 11:55		OK



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Report of Analysis

Client:		Date Collected:	10/11/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/12/2017 12:00:00 AM
Client Sample ID:	B-19(2-4)_101117	SDG No.:	LB90938
Lab Sample ID:	I5873-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.98		1	0.06	0.014	0.55	mg/kg	10/16/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/11/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/12/2017 12:00:00 AM
Client Sample ID:	B-19(2-4)_101117	SDG No.:	LB90938
Lab Sample ID:	I5873-01RE	Matrix:	Solid
Level (low/med):	low	% Solid:	88.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.97		1	0.06	0.014	0.55	mg/kg	10/16/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/11/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/12/2017 12:00:00 AM
Client Sample ID:	B-13(0-1)_101117	SDG No.:	LB90938
Lab Sample ID:	I5873-02	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	0.077	J	1	0.062	0.014	0.56	mg/kg	10/16/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/11/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/12/2017 12:00:00 AM
Client Sample ID:	B-13(1-3)_101117	SDG No.:	LB90938
Lab Sample ID:	I5873-03	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	0.09	J	1	0.06	0.014	0.55	mg/kg	10/16/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/12/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/12/2017 12:00:00 AM
Client Sample ID:	B-16(0-1)_101217	SDG No.:	LB90938
Lab Sample ID:	I5873-04	Matrix:	Solid
Level (low/med):	low	% Solid:	88.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.15	J	1	0.058	0.013	0.53	mg/kg	10/16/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/12/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/12/2017 12:00:00 AM
Client Sample ID:	B-16(7-7.75)_1012117	SDG No.:	LB90938
Lab Sample ID:	I5873-05	Matrix:	Solid
Level (low/med):	low	% Solid:	92.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.016	U	1	0.057	0.013	0.52	mg/kg	10/16/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/12/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/12/2017 12:00:00 AM
Client Sample ID:	B-18(0-1)_101217	SDG No.:	LB90938
Lab Sample ID:	I5873-06	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	0.41	J	1	0.058	0.013	0.53	mg/kg	10/16/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/12/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/12/2017 12:00:00 AM
Client Sample ID:	B-18(5-6)_101217	SDG No.:	LB90938
Lab Sample ID:	I5873-07	Matrix:	Solid
Level (low/med):	low	% Solid:	86

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.03	U	1	0.061	0.014	0.55	mg/kg	10/16/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/13/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/13/2017 12:00:00 AM
Client Sample ID:	B-5(0.5-1.5)-101317	SDG No.:	LB90938
Lab Sample ID:	I5902-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.15	J	1	0.058	0.013	0.53	mg/kg	10/16/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/13/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/13/2017 12:00:00 AM
Client Sample ID:	B-5(5-6.5)-101317	SDG No.:	LB90938
Lab Sample ID:	I5902-02	Matrix:	Solid
Level (low/med):	low	% Solid:	94.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.029	U	1	0.057	0.013	0.52	mg/kg	10/16/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/13/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/13/2017 12:00:00 AM
Client Sample ID:	B-12(0-1)-101317	SDG No.:	LB90938
Lab Sample ID:	I5902-03	Matrix:	Solid
Level (low/med):	low	% Solid:	84

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.42	J	1	0.063	0.014	0.57	mg/kg	10/16/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/13/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/13/2017 12:00:00 AM
Client Sample ID:	B-12(1-3)-101317	SDG No.:	LB90938
Lab Sample ID:	I5902-04	Matrix:	Solid
Level (low/med):	low	% Solid:	86.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.19	J	1	0.063	0.014	0.57	mg/kg	10/16/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/13/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/13/2017 12:00:00 AM
Client Sample ID:	B-65(0.5-1.5)-101317	SDG No.:	LB90938
Lab Sample ID:	I5902-05	Matrix:	Solid
Level (low/med):	low	% Solid:	89.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.37	J	1	0.059	0.013	0.54	mg/kg	10/16/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/13/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/13/2017 12:00:00 AM
Client Sample ID:	B-65(1.5-2.7)-101317	SDG No.:	LB90938
Lab Sample ID:	I5902-06	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	0.45	J	1	0.059	0.013	0.54	mg/kg	10/16/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/16/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/16/2017 12:00:00 AM
Client Sample ID:	B-9(0-1)_101617	SDG No.:	LB90938
Lab Sample ID:	I5933-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	2.0		1	0.059	0.013	0.54	mg/kg	10/18/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/16/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/16/2017 12:00:00 AM
Client Sample ID:	B-9(5-6)_101617	SDG No.:	LB90938
Lab Sample ID:	I5933-02	Matrix:	Solid
Level (low/med):	low	% Solid:	76.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.021	U	1	0.068	0.016	0.62	mg/kg	10/18/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/16/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/17/2017 12:00:00 AM
Client Sample ID:	B-71(3-5)-101617	SDG No.:	LB90938
Lab Sample ID:	I5958-01	Matrix:	Solid
Level (low/med):	low	% Solid:	84

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	10/18/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/16/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/17/2017 12:00:00 AM
Client Sample ID:	B-10(3-5)-101617	SDG No.:	LB90938
Lab Sample ID:	I5958-02	Matrix:	Solid
Level (low/med):	low	% Solid:	78.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.05	U	1	0.067	0.015	0.61	mg/kg	10/18/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/17/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/17/2017 12:00:00 AM
Client Sample ID:	B-17(0.25-1.25)-101717	SDG No.:	LB90938
Lab Sample ID:	I5958-03	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	0.082	J	1	0.058	0.013	0.52	mg/kg	10/18/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/17/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/17/2017 12:00:00 AM
Client Sample ID:	B-17(5-6.5)-101717	SDG No.:	LB90938
Lab Sample ID:	I5958-04	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	0.13	J	1	0.062	0.014	0.56	mg/kg	10/18/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/17/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/17/2017 12:00:00 AM
Client Sample ID:	B-15(0.25-1.25)-101717	SDG No.:	LB90938
Lab Sample ID:	I5958-05	Matrix:	Solid
Level (low/med):	low	% Solid:	89.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.063	J	1	0.06	0.014	0.54	mg/kg	10/18/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/17/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/17/2017 12:00:00 AM
Client Sample ID:	B-15(5-6)-101717	SDG No.:	LB90938
Lab Sample ID:	I5958-08	Matrix:	Solid
Level (low/med):	low	% Solid:	89.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.002	U	1	0.058	0.013	0.53	mg/kg	10/18/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/17/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/17/2017 12:00:00 AM
Client Sample ID:	B-14(0-1)-101717	SDG No.:	LB90938
Lab Sample ID:	I5958-09	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	0.019	U	1	0.057	0.013	0.52	mg/kg	10/18/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/17/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/17/2017 12:00:00 AM
Client Sample ID:	DUP-6	SDG No.:	LB90938
Lab Sample ID:	I5958-10	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	0.013	U	1	0.062	0.014	0.56	mg/kg	10/18/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/17/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/17/2017 12:00:00 AM
Client Sample ID:	B-14(7-7.5)-101717	SDG No.:	LB90938
Lab Sample ID:	I5958-11	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	0.006	U	1	0.058	0.013	0.53	mg/kg	10/18/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/17/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/17/2017 12:00:00 AM
Client Sample ID:	B-6(3.5-4.5)-101717	SDG No.:	LB90938
Lab Sample ID:	I5958-13	Matrix:	Solid
Level (low/med):	low	% Solid:	88.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.008	U	1	0.061	0.014	0.55	mg/kg	10/18/2017	10/19/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/17/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/17/2017 12:00:00 AM
Client Sample ID:	B-6(5-5.5)-101717	SDG No.:	LB90938
Lab Sample ID:	I5958-14	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	0.019	U	1	0.058	0.013	0.53	mg/kg	10/18/2017	10/19/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	10/17/2017 12:00:00 AM
Project:	LB90938	Date Received:	10/17/2017 12:00:00 AM
Client Sample ID:	B-6(5-5.5)-101717	SDG No.:	LB90938
Lab Sample ID:	I5958-14	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.
-----	-----------	-------	------	----	-----	-----	------------	-------	-----------	-----------	----------

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>LB90938</u>	SDG No.: <u>LB90938</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB90938</u>	SAS No.: <u>LB90938</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB103345							
PB103345BL	PBS006	MB	SOLID	10/19/2017	1.02	50.0	100.00
I5873-01	B-19(2-4)_101117	SAM	SOLID	10/19/2017	1.03	50.0	88.70
I5873-02	B-13(0-1)_101117	SAM	SOLID	10/19/2017	1.04	50.0	85.60
I5873-03	B-13(1-3)_101117	SAM	SOLID	10/19/2017	1.05	50.0	87.10
I5873-04	B-16(0-1)_101217	SAM	SOLID	10/19/2017	1.06	50.0	88.80
I5873-05	B-16(7-7.75)_1012117	SAM	SOLID	10/19/2017	1.04	50.0	92.70
I5873-06	B-18(0-1)_101217	SAM	SOLID	10/19/2017	1.03	50.0	91.90
I5873-07	B-18(5-6)_101217	SAM	SOLID	10/19/2017	1.05	50.0	86.00
I5902-01	B-5(0.5-1.5)-101317	SAM	SOLID	10/19/2017	1.06	50.0	89.40
I5902-02	B-5(5-6.5)-101317	SAM	SOLID	10/19/2017	1.03	50.0	94.10
I5902-03	B-12(0-1)-101317	SAM	SOLID	10/19/2017	1.04	50.0	84.00
I5902-04	B-12(1-3)-101317	SAM	SOLID	10/19/2017	1.02	50.0	86.10
I5902-05	B-65(0.5-1.5)-101317	SAM	SOLID	10/19/2017	1.04	50.0	89.10
I5902-06	B-65(1.5-2.7)-101317	SAM	SOLID	10/19/2017	1.03	50.0	90.00
I5873-01RE	B-19(2-4)_101117	SAM	SOLID	10/19/2017	1.03	50.0	88.70



Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: LB90938 **SDG No.:** LB90938
Contract: **Lab Code:** CHEM **Method:**
Case No.: LB90938 **SAS No.:** LB90938

					Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date			
Batch Number: PB103403							
PB103403BL	PBS006	MB	SOLID	10/19/2017	1.02	50.0	100.00
I5933-01	B-9(0-1)_101617	SAM	SOLID	10/19/2017	1.04	50.0	89.40
I5933-02	B-9(5-6)_101617	SAM	SOLID	10/19/2017	1.05	50.0	76.50
I5958-01	B-71(3-5)-101617	SAM	SOLID	10/19/2017	1.04	50.0	84.00
I5958-02	B-10(3-5)-101617	SAM	SOLID	10/19/2017	1.05	50.0	78.30
I5958-03	B-17(0.25-1.25)-101717	SAM	SOLID	10/19/2017	1.03	50.0	92.60
I5958-04	B-17(5-6.5)-101717	SAM	SOLID	10/19/2017	1.05	50.0	84.70
I5958-05	B-15(0.25-1.25)-101717	SAM	SOLID	10/19/2017	1.03	50.0	89.30
I5958-06	B-15(0.25-1.25)-101717D	DUP	SOLID	10/19/2017	1.04	50.0	89.30
I5958-07	B-15(0.25-1.25)-101717S	MS	SOLID	10/19/2017	1.03	50.0	89.30
I5958-08	B-15(5-6)-101717	SAM	SOLID	10/19/2017	1.06	50.0	89.20
I5958-09	B-14(0-1)-101717	SAM	SOLID	10/19/2017	1.02	50.0	93.80
I5958-10	DUP-6	SAM	SOLID	10/19/2017	1.04	50.0	85.70
I5958-11	B-14(7-7.5)-101717	SAM	SOLID	10/19/2017	1.03	50.0	91.80
I5958-13	B-6(3.5-4.5)-101717	SAM	SOLID	10/19/2017	1.02	50.0	88.50
I5958-14	B-6(5-5.5)-101717	SAM	SOLID	10/19/2017	1.04	50.0	91.20



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

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S E	A G	N A	T L	V	Z N	C N				
S0.0	1	0913																									X				
S5.0	1	0913																									X				
S10.0	1	0913																									X				
S100.0	1	0913																									X				
S250.0	1	0914																									X				
S500.0	1	0914																									X				
ICV	1	1190																									X				
ICB	1	1190																									X				
CCV001	1	1190																									X				
CCB001	1	1190																									X				
PBS006	1	1190																									X				
B-19(2-4) 101117	1	1191																									X				
B-13(0-1) 101117	1	1154																									X				
B-13(1-3) 101117	1	1154																									X				
B-16(0-1) 101217	1	1154																									X				
B-16(7-7.75) 1012117	1	1154																									X				
B-18(0-1) 101217	1	1154																									X				
B-18(5-6) 101217	1	1154																									X				
B-5(0.5-1.5)-101317	1	1154																									X				
B-5(5-6.5)-101317	1	1155																									X				
B-12(0-1)-101317	1	1175																									X				
B-12(1-3)-101317	1	1110																									X				
B-65(0.5-1.5)-101317	1	1110																									X				
B-65(1.5-2.7)-101317	1	1110																									X				
PBS006	1	1110																									X				
B-9(0-1) 101617	1	1183																									X				
B-9(5-6) 101617	1	1184																									X				
B-71(3-5)-101617	1	1184																									X				
B-10(3-5)-101617	1	1184																									X				
B-17(0.25-1.25)-101717	1	1184																									X				
B-17(5-6.5)-101717	1	1184																									X				
B-15(0.25-1.25)-101717	1	1184																									X				
B-15(0.25-1.25)-101717D	1	1184																									X				
B-15(0.25-1.25)-101717S	1	1184																									X				
B-15(5-6)-101717	1	1184																									X				
B-19(2-4) 101117	1	1154																									X				
B-14(0-1)-101717	1	1154																									X				
DUP-6	1	1154																									X				
B-14(7-7.5)-101717	1	1154																									X				
B-6(3.5-4.5)-101717	1	1154																									X				
B-6(5-5.5)-101717	1	1155																									X				



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

[illegible]

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB90938 Contract: _____
Lab Code: CHEM Case No.: LB90938 MA No.: _____ SDG No.: LB90938
Instrument ID: CN Start Date: 10/19/2017
Analytical Method: _____ Run Batch: LB90938.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0	0	5	4.0	-20	10	8.6	-14

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB90938 Contract: _____
Lab Code: CHEM Case No.: LB90938 MA No.: _____ SDG No.: LB90938
Instrument ID: CN Start Date: 10/19/2017
Analytical Method: _____ Run Batch: LB90938.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	100	0	250	254	2	500	498	0



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90938

SDG No.: LB90938

Contract: _____ **Lab Code:** CHEM

Case No.: LB90938

SAS No.: LB90938

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	97.1	99	98	0	85 - 115	CN	10/19/2017	11:19	LB90938



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90938

SDG No.: LB90938

Contract: _____ Lab Code: CHEM

Case No.: LB90938

SAS No.: LB90938

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	10/19/2017	11:19	LB90938
CCV002	Cyanide	244	250	98	0	85 - 115	CN	10/19/2017	11:55	LB90938



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90938 **SDG No.:** LB90938
Contract: **Lab Code:** CHEM **Case No.:** LB90938 **SAS No.:** LB90938

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB	Cyanide	0.43	+/-10.0	U	5.0	10.0	CN	10/19/2017	11:19	LB90938



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: <u>LB90938</u>		SDG No.: <u>LB90938</u>								
Contract: _____		Lab Code: <u>CHEM</u>		Case No.: <u>LB90938</u>			SAS No.: <u>LB90938</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	10/19/2017	11:19	LB90938
CCB002	Cyanide	0.39	+/-10.0	U	5.0	10.0	CN	10/19/2017	11:55	LB90938



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90938

SDG No.: LB90938

Contract: Lab Code: CHEM

Case No.: LB90938

SAS No.: LB90938

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: LB90938

SDG No.: LB90938

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB103345BL	SOLID		Batch Number:		PB103345		Prep Date:		10/16/2017	
	Cyanide	0.013	<0.49	U	0.012	0.49	CN	10/19/2017	11:19	LB90938
Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB103403BL	SOLID		Batch Number:		PB103403		Prep Date:		10/18/2017	
	Cyanide	0.054	<0.49	U	0.012	0.49	CN	10/19/2017	11:41	LB90938



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB90938 level: low sdg no.: LB90938
contract: lab code: CHEM case no.: LB90938 sas no.: LB90938
matrix: Solid sample id: I5958-05 client id: B-15(0.25-1.25)-101717S
Percent Solids for Sample: 89.3 Spiked ID: I5958-07 Percent Solids for Spike Sample: 89.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	5.0		0.063	J	5.4	91		CN

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90938 **Level:** LOW **SDG No.:** LB90938
Contract: **Lab Code:** CHEM **Case No.:** LB90938 **SAS No.:** LB90938
Matrix: Solid **Sample ID:** I5958-05 **Client ID:** B-15(0.25-1.25)-101717D
Percent Solids for Sample: 89.3 **Duplicate ID** I5958-06 **Percent Solids for Spike Sample:** 89.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.063	J	0.076	J	19		CN



Hit Summary Sheet
SW-846

SDG No.: LB90938

Order ID: LB90938

Client: LB90938

Project ID: LB90938

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : I5873-01	B-19(2-4)_101117 B-19(2-4)_101117	Solid	Cyanide	0.980		0.06	0.275	0.55	mg/kg
Client ID : I5873-01RE	B-19(2-4)_101117 B-19(2-4)_101117	Solid	Cyanide	0.970		0.06	0.275	0.55	mg/kg
Client ID : I5873-02	B-13(0-1)_101117 B-13(0-1)_101117	Solid	Cyanide	0.077	J	0.062	0.28	0.56	mg/kg
Client ID : I5873-03	B-13(1-3)_101117 B-13(1-3)_101117	Solid	Cyanide	0.090	J	0.06	0.275	0.55	mg/kg
Client ID : I5873-04	B-16(0-1)_101217 B-16(0-1)_101217	Solid	Cyanide	0.150	J	0.058	0.265	0.53	mg/kg
Client ID : I5873-06	B-18(0-1)_101217 B-18(0-1)_101217	Solid	Cyanide	0.410	J	0.058	0.265	0.53	mg/kg
Client ID : I5902-01	B-5(0.5-1.5)-101317 B-5(0.5-1.5)-101317	Solid	Cyanide	0.150	J	0.058	0.265	0.53	mg/kg
Client ID : I5902-03	B-12(0-1)-101317 B-12(0-1)-101317	Solid	Cyanide	0.420	J	0.063	0.285	0.57	mg/kg
Client ID : I5902-04	B-12(1-3)-101317 B-12(1-3)-101317	Solid	Cyanide	0.190	J	0.063	0.285	0.57	mg/kg
Client ID : I5902-05	B-65(0.5-1.5)-101317 B-65(0.5-1.5)-101317	Solid	Cyanide	0.370	J	0.059	0.27	0.54	mg/kg
Client ID : I5902-06	B-65(1.5-2.7)-101317 B-65(1.5-2.7)-101317	Solid	Cyanide	0.450	J	0.059	0.27	0.54	mg/kg
Client ID : I5933-01	B-9(0-1)_101617 B-9(0-1)_101617	Solid	Cyanide	2.000		0.059	0.27	0.54	mg/kg
Client ID : I5958-03	B-17(0.25-1.25)-101717 B-17(0.25-1.25)-101717	Solid	Cyanide	0.082	J	0.058	0.26	0.52	mg/kg
Client ID : I5958-04	B-17(5-6.5)-101717 B-17(5-6.5)-101717	Solid	Cyanide	0.130	J	0.062	0.28	0.56	mg/kg
Client ID : I5958-05	B-15(0.25-1.25)-101717 B-15(0.25-1.25)-101717	Solid	Cyanide	0.063	J	0.06	0.27	0.54	mg/kg



Hit Summary Sheet
SW-846

SDG No.:	LB90938	Order ID:	LB90938
Client:	LB90938	Project ID:	LB90938

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
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Metals
- 10 -

Client: LB90938

SDG No.: LB90938

Contract:

Lab Code: CHEM

Case No.: LB90938

SAS No.: LB90938

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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