

Daily Analysis Runlog For Sequence/QC Batch ID # LB86948

Review By		Review On				
SubDirectory		LB86948		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP54236,WP54235,WP54234,WP54233,WP54232,WP54231				
ICV Standard		WP54237				
CCV Standard		WP54238				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54293,WP51626,WP53945				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	04/18/17 09:43		OK
2	S5.0	S5.0	CAL2	04/18/17 09:43		OK
3	S10.0	S10.0	CAL3	04/18/17 09:43		OK
4	S100.0	S100.0	CAL4	04/18/17 09:43		OK
5	S250.0	S250.0	CAL5	04/18/17 09:43		OK
6	S500.0	S500.0	CAL6	04/18/17 09:43		OK
7	ICV	ICV	ICV	04/18/17 10:41		OK
8	ICB	ICB	ICB	04/18/17 10:41		OK
9	CCV001	CCV001	CCV	04/18/17 10:41		OK
10	CCB001	CCB001	CCB	04/18/17 10:41		OK
11	PB98263BL	PBS006	MB	04/18/17 10:41		OK
12	I2690-01	MF4C42	SAM	04/18/17 10:41		OK
13	I2690-02	MF4C42D	DUP	04/18/17 10:41		OK
14	I2690-04	MF4C43	SAM	04/18/17 10:41		OK
15	I2690-05	MF4C44	SAM	04/18/17 10:48		OK
16	I2690-06	MF4C45	SAM	04/18/17 10:48		OK
17	I2690-07	MF4C46	SAM	04/18/17 10:48		OK
18	I2690-08	MF4C52	SAM	04/18/17 10:48		OK
19	I2690-09	MF4C53	SAM	04/18/17 10:48		OK
20	I2690-10	MF4C54	SAM	04/18/17 10:48		OK
21	I2690-11	MF4B23	SAM	04/18/17 10:48		OK

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SubDirectory		LB86948		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP54236,WP54235,WP54234,WP54233,WP54232,WP54231				
ICV Standard		WP54237				
CCV Standard		WP54238				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54293,WP51626,WP53945				
22	I2690-12	MF4B24	SAM	04/18/17 10:48		OK
23	I2690-13	MF4B25	SAM	04/18/17 10:48		OK
24	I2690-14	MF4B56	SAM	04/18/17 10:48		OK
25	I2690-16	MF4B58	SAM	04/18/17 10:56		OK
26	I2690-17	MF4B59	SAM	04/18/17 10:56		OK
27	I2690-18	MF4B60	SAM	04/18/17 10:56		OK
28	I2690-19	MF4B73	SAM	04/18/17 10:56		OK
29	I2690-20	MF4C47	SAM	04/18/17 10:56		OK
30	I2690-21	MF4C48	SAM	04/18/17 10:56		OK
31	I2690-22	MF4C49	SAM	04/18/17 10:56		OK
32	PB98281BL	PBS006	MB	04/18/17 10:56		OK
33	I2696-01	MF4B27	SAM	04/18/17 10:56		OK
34	I2696-02	MF4B27D	DUP	04/18/17 10:56		OK
35	I2696-03	MF4B27S	MS	04/18/17 10:56		OK
36	I2696-04	MF4B28	SAM	04/18/17 11:03		OK
37	I2696-05	MF4B29	SAM	04/18/17 11:03		OK
38	I2696-06	MF4B30	SAM	04/18/17 11:03		OK
39	I2696-07	MF4B61	SAM	04/18/17 11:03		OK
40	I2696-08	MF4B62	SAM	04/18/17 11:03		OK
41	I2696-09	MF4B63	SAM	04/18/17 11:03		OK
42	I2696-10	MF4B64	SAM	04/18/17 11:03		OK
43	I2696-11	MF4C64	SAM	04/18/17 11:03		OK

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Review By			Review On			
SubDirectory		LB86948		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP54236,WP54235,WP54234,WP54233,WP54232,WP54231				
ICV Standard		WP54237				
CCV Standard		WP54238				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54293,WP51626,WP53945				
44	I2696-12	MF4C65	SAM	04/18/17 11:03		OK
45	I2696-13	MF4B32	SAM	04/18/17 11:03		OK
46	I2696-14	MF4B33	SAM	04/18/17 11:03		OK
47	I2696-15	MF4B34	SAM	04/18/17 11:11		OK
48	I2696-16	MF4B35	SAM	04/18/17 11:11		OK
49	I2696-17	MF4B36	SAM	04/18/17 11:11		OK
50	I2696-18	MF4C50	SAM	04/18/17 11:11		OK
51	I2696-19	MF4C51	SAM	04/18/17 11:11		OK
52	I2696-20	MF4C55	SAM	04/18/17 11:11		OK
53	I2696-21	MF4C56	SAM	04/18/17 11:11		OK
54	I2696-22	MF4C57	SAM	04/18/17 11:11		OK
55	CCV002	CCV002	CCV	04/18/17 11:11		OK
56	CCB002	CCB002	CCB	04/18/17 11:11		OK
57	I2690-03	MF4C42S	MS	04/18/17 11:35		OK
58	I2690-15	MF4B57	SAM	04/18/17 11:35		OK
59	CCV003	CCV003	CCV	04/18/17 11:35		OK
60	CCB003	CCB003	CCB	04/18/17 11:35		OK



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C42	SDG No.:	LB86948
Lab Sample ID:	I2690-01	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	0.058	0.013	0.53	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C43	SDG No.:	LB86948
Lab Sample ID:	I2690-04	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	U	1	0.059	0.013	0.54	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C44	SDG No.:	LB86948
Lab Sample ID:	I2690-05	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	U	1	0.058	0.013	0.52	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C45	SDG No.:	LB86948
Lab Sample ID:	I2690-06	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	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C46	SDG No.:	LB86948
Lab Sample ID:	I2690-07	Matrix:	Solid
Level (low/med):	low	% Solid:	85.1

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	04/17/2017	04/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C52	SDG No.:	LB86948
Lab Sample ID:	I2690-08	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	U	1	0.059	0.013	0.54	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C53	SDG No.:	LB86948
Lab Sample ID:	I2690-09	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	U	1	0.061	0.014	0.56	mg/kg	04/17/2017	04/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C54	SDG No.:	LB86948
Lab Sample ID:	I2690-10	Matrix:	Solid
Level (low/med):	low	% Solid:	87

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	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B23	SDG No.:	LB86948
Lab Sample ID:	I2690-11	Matrix:	Solid
Level (low/med):	low	% Solid:	95.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.057	0.013	0.51	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B24	SDG No.:	LB86948
Lab Sample ID:	I2690-12	Matrix:	Solid
Level (low/med):	low	% Solid:	85.3

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	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B25	SDG No.:	LB86948
Lab Sample ID:	I2690-13	Matrix:	Solid
Level (low/med):	low	% Solid:	86.3

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	0.54	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B56	SDG No.:	LB86948
Lab Sample ID:	I2690-14	Matrix:	Solid
Level (low/med):	low	% Solid:	90.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.059	0.013	0.53	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B57	SDG No.:	LB86948
Lab Sample ID:	I2690-15	Matrix:	Solid
Level (low/med):	low	% Solid:	86.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.004	U	1	0.063	0.014	0.57	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B58	SDG No.:	LB86948
Lab Sample ID:	I2690-16	Matrix:	Solid
Level (low/med):	low	% Solid:	87.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.058	0.013	0.52	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B59	SDG No.:	LB86948
Lab Sample ID:	I2690-17	Matrix:	Solid
Level (low/med):	low	% Solid:	84.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.065	0.015	0.59	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B60	SDG No.:	LB86948
Lab Sample ID:	I2690-18	Matrix:	Solid
Level (low/med):	low	% Solid:	80.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.066	0.015	0.6	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B73	SDG No.:	LB86948
Lab Sample ID:	I2690-19	Matrix:	Solid
Level (low/med):	low	% Solid:	97.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.011	U	1	0.054	0.012	0.49	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4C47	SDG No.:	LB86948
Lab Sample ID:	I2690-20	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	U	1	0.056	0.013	0.51	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4C48	SDG No.:	LB86948
Lab Sample ID:	I2690-21	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	0.024	U	1	0.058	0.013	0.53	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4C49	SDG No.:	LB86948
Lab Sample ID:	I2690-22	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	0.062	0.014	0.56	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B27	SDG No.:	LB86948
Lab Sample ID:	I2696-01	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	0.017	U	1	0.059	0.013	0.54	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B28	SDG No.:	LB86948
Lab Sample ID:	I2696-04	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	U	1	0.059	0.013	0.54	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B29	SDG No.:	LB86948
Lab Sample ID:	I2696-05	Matrix:	Solid
Level (low/med):	low	% Solid:	88.4

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	0.54	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B30	SDG No.:	LB86948
Lab Sample ID:	I2696-06	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	0.06	0.014	0.55	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B61	SDG No.:	LB86948
Lab Sample ID:	I2696-07	Matrix:	Solid
Level (low/med):	low	% Solid:	87

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	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B62	SDG No.:	LB86948
Lab Sample ID:	I2696-08	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	U	1	0.061	0.014	0.55	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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

Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B63	SDG No.:	LB86948
Lab Sample ID:	I2696-09	Matrix:	Solid
Level (low/med):	low	% Solid:	85.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.061	0.014	0.56	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B64	SDG No.:	LB86948
Lab Sample ID:	I2696-10	Matrix:	Solid
Level (low/med):	low	% Solid:	86.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.062	0.014	0.56	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4C64	SDG No.:	LB86948
Lab Sample ID:	I2696-11	Matrix:	Solid
Level (low/med):	low	% Solid:	86.7

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	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4C65	SDG No.:	LB86948
Lab Sample ID:	I2696-12	Matrix:	Solid
Level (low/med):	low	% Solid:	87.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.06	0.014	0.55	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B32	SDG No.:	LB86948
Lab Sample ID:	I2696-13	Matrix:	Solid
Level (low/med):	low	% Solid:	93.3

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	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B33	SDG No.:	LB86948
Lab Sample ID:	I2696-14	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	U	1	0.06	0.014	0.55	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B34	SDG No.:	LB86948
Lab Sample ID:	I2696-15	Matrix:	Solid
Level (low/med):	low	% Solid:	90.1

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	0.54	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B35	SDG No.:	LB86948
Lab Sample ID:	I2696-16	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	0.061	0.014	0.55	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4B36	SDG No.:	LB86948
Lab Sample ID:	I2696-17	Matrix:	Solid
Level (low/med):	low	% Solid:	90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.059	0.013	0.54	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4C50	SDG No.:	LB86948
Lab Sample ID:	I2696-18	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	0.004	U	1	0.06	0.014	0.54	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4C51	SDG No.:	LB86948
Lab Sample ID:	I2696-19	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	U	1	0.06	0.014	0.55	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4C55	SDG No.:	LB86948
Lab Sample ID:	I2696-20	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	0.017	U	1	0.055	0.013	0.5	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4C56	SDG No.:	LB86948
Lab Sample ID:	I2696-21	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	0.017	U	1	0.058	0.013	0.52	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4C57	SDG No.:	LB86948
Lab Sample ID:	I2696-22	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	0.001	U	1	0.06	0.014	0.54	mg/kg	04/17/2017	04/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86948	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	MF4C57	SDG No.:	LB86948
Lab Sample ID:	I2696-22	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.
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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

Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: LB86948
SDG No.: LB86948
Contract:
Lab Code: CHEM
Method:
Case No.: LB86948
SAS No.: LB86948

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB98263							
PB98263BL	PBS006	MB	SOLID	04/18/2017	1.00	50.0	100.00
I2690-01	MF4C42	SAM	SOLID	04/18/2017	1.05	50.0	90.40
I2690-02	MF4C42D	DUP	SOLID	04/18/2017	1.04	50.0	90.40
I2690-04	MF4C43	SAM	SOLID	04/18/2017	1.03	50.0	90.30
I2690-05	MF4C44	SAM	SOLID	04/18/2017	1.07	50.0	89.20
I2690-06	MF4C45	SAM	SOLID	04/18/2017	1.05	50.0	88.20
I2690-07	MF4C46	SAM	SOLID	04/18/2017	1.06	50.0	85.10
I2690-08	MF4C52	SAM	SOLID	04/18/2017	1.04	50.0	89.60
I2690-09	MF4C53	SAM	SOLID	04/18/2017	1.01	50.0	88.90
I2690-10	MF4C54	SAM	SOLID	04/18/2017	1.04	50.0	87.00
I2690-11	MF4B23	SAM	SOLID	04/18/2017	1.02	50.0	95.40
I2690-12	MF4B24	SAM	SOLID	04/18/2017	1.04	50.0	85.30
I2690-13	MF4B25	SAM	SOLID	04/18/2017	1.07	50.0	86.30
I2690-14	MF4B56	SAM	SOLID	04/18/2017	1.04	50.0	90.20
I2690-16	MF4B58	SAM	SOLID	04/18/2017	1.09	50.0	87.50
I2690-17	MF4B59	SAM	SOLID	04/18/2017	1.01	50.0	84.20
I2690-18	MF4B60	SAM	SOLID	04/18/2017	1.03	50.0	80.60
I2690-19	MF4B73	SAM	SOLID	04/18/2017	1.04	50.0	97.70
I2690-20	MF4C47	SAM	SOLID	04/18/2017	1.05	50.0	93.00
I2690-21	MF4C48	SAM	SOLID	04/18/2017	1.04	50.0	91.10
I2690-22	MF4C49	SAM	SOLID	04/18/2017	1.03	50.0	86.20
I2690-03	MF4C42S	MS	SOLID	04/18/2017	1.03	50.0	90.40
I2690-15	MF4B57	SAM	SOLID	04/18/2017	1.01	50.0	86.60

**Metals
- 13 -**

SAMPLE PREPARATION SUMMARY

Client: <u>LB86948</u>	SDG No.: <u>LB86948</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB86948</u>	SAS No.: <u>LB86948</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB98281							
PB98281BL	PBS006	MB	SOLID	04/18/2017	1.00	50.0	100.00
I2696-01	MF4B27	SAM	SOLID	04/18/2017	1.03	50.0	90.30
I2696-02	MF4B27D	DUP	SOLID	04/18/2017	1.04	50.0	90.30
I2696-03	MF4B27S	MS	SOLID	04/18/2017	1.03	50.0	90.30
I2696-04	MF4B28	SAM	SOLID	04/18/2017	1.04	50.0	89.10
I2696-05	MF4B29	SAM	SOLID	04/18/2017	1.05	50.0	88.40
I2696-06	MF4B30	SAM	SOLID	04/18/2017	1.04	50.0	88.00
I2696-07	MF4B61	SAM	SOLID	04/18/2017	1.03	50.0	87.00
I2696-08	MF4B62	SAM	SOLID	04/18/2017	1.04	50.0	87.20
I2696-09	MF4B63	SAM	SOLID	04/18/2017	1.05	50.0	85.40
I2696-10	MF4B64	SAM	SOLID	04/18/2017	1.03	50.0	86.40
I2696-11	MF4C64	SAM	SOLID	04/18/2017	1.02	50.0	86.70
I2696-12	MF4C65	SAM	SOLID	04/18/2017	1.04	50.0	87.50
I2696-13	MF4B32	SAM	SOLID	04/18/2017	1.05	50.0	93.30
I2696-14	MF4B33	SAM	SOLID	04/18/2017	1.03	50.0	88.70
I2696-15	MF4B34	SAM	SOLID	04/18/2017	1.02	50.0	90.10
I2696-16	MF4B35	SAM	SOLID	04/18/2017	1.01	50.0	89.70
I2696-17	MF4B36	SAM	SOLID	04/18/2017	1.03	50.0	90.60
I2696-18	MF4C50	SAM	SOLID	04/18/2017	1.02	50.0	90.40
I2696-19	MF4C51	SAM	SOLID	04/18/2017	1.03	50.0	89.10
I2696-20	MF4C55	SAM	SOLID	04/18/2017	1.04	50.0	95.30
I2696-21	MF4C56	SAM	SOLID	04/18/2017	1.03	50.0	92.60
I2696-22	MF4C57	SAM	SOLID	04/18/2017	1.02	50.0	90.30

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB86948 Contract: _____
Lab Code: CHEM Case No.: LB86948 MA No.: _____ SDG No.: LB86948
Instrument ID: CN Start Date: 04/18/2017
Analytical Method: _____ Run Batch: LB86948.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0	0	5	3.7	-26	10	9.2	-8

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB86948 Contract: _____
Lab Code: CHEM Case No.: LB86948 MA No.: _____ SDG No.: LB86948
Instrument ID: CN Start Date: 04/18/2017
Analytical Method: _____ Run Batch: LB86948.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	101	1	250	256	2	500	497	-1



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86948

SDG No.: LB86948Contract: _____ Lab Code: CHEM

Case No.: LB86948

SAS No.: LB86948

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		ug/L								
ICV	Cyanide	95.1	99	96	0	85 - 115	CN	04/18/2017	10:41	LB86948



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86948

SDG No.: LB86948

Contract: _____ Lab Code: CHEM

Case No.: LB86948

SAS No.: LB86948

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	04/18/2017	10:41	LB86948
CCV002	Cyanide	246	250	98	0	85 - 115	CN	04/18/2017	11:11	LB86948
CCV003	Cyanide	255	250	102	0	85 - 115	CN	04/18/2017	11:35	LB86948



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86948 **SDG No.:** LB86948
Contract: **Lab Code:** CHEM **Case No.:** LB86948 **SAS No.:** LB86948

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	04/18/2017	10:41	LB86948



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86948

SDG No.: LB86948

Contract:

Lab Code: CHEM

Case No.: LB86948

SAS No.: LB86948

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	04/18/2017	10:41	LB86948
CCB002	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	04/18/2017	11:11	LB86948
CCB003	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	04/18/2017	11:35	LB86948



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86948

SDG No.: LB86948

Contract: Lab Code: CHEM

Case No.: LB86948

SAS No.: LB86948

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: LB86948

SDG No.: LB86948

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB98263BL	SOLID		Batch Number:		PB98263		Prep Date:		04/17/2017	
	Cyanide	0.055	<0.5	J	0.013	0.5	CN	04/18/2017	10:41	LB86948
Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB98281BL	SOLID		Batch Number:		PB98281		Prep Date:		04/17/2017	
	Cyanide	0.055	<0.5	U	0.013	0.5	CN	04/18/2017	10:56	LB86948



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB86948 level: low sdg no.: LB86948
contract: lab code: CHEM case no.: LB86948 sas no.: LB86948
matrix: Solid sample id: I2690-01 client id: MF4C42S
Percent Solids for Sample: 90.4 Spiked ID: I2690-03 Percent Solids for Spike Sample: 90.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	4.3		0.53	U	5.4	80		CN



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB86948 level: low sdg no.: LB86948
contract: lab code: CHEM case no.: LB86948 sas no.: LB86948
matrix: Solid sample id: I2696-01 client id: MF4B27S
Percent Solids for Sample: 90.3 Spiked ID: I2696-03 Percent Solids for Spike Sample: 90.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	4.7		0.54	U	5.4	87		CN

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB86948 **Level:** LOW **SDG No.:** LB86948
Contract: **Lab Code:** CHEM **Case No.:** LB86948 **SAS No.:** LB86948
Matrix: Solid **Sample ID:** I2690-01 **Client ID:** MF4C42D
Percent Solids for Sample: 90.4 **Duplicate ID** I2690-02 **Percent Solids for Spike Sample:** 90.4

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

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB86948 **Level:** LOW **SDG No.:** LB86948
Contract: **Lab Code:** CHEM **Case No.:** LB86948 **SAS No.:** LB86948
Matrix: Solid **Sample ID:** I2696-01 **Client ID:** MF4B27D
Percent Solids for Sample: 90.3 **Duplicate ID** I2696-02 **Percent Solids for Spike Sample:** 90.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.54	U	0.028	U			CN