

Daily Analysis Runlog For Sequence/QC Batch ID # LB90923

Review By

Review On

SubDirectory

LB90923

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP58716,WP58715,WP58714,WP58713,WP58712,WP58711				
ICV Standard		WP58718				
CCV Standard		WP58719				
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	10/18/17 17:08		OK
2	S5.0	S5.0	CAL2	10/18/17 17:08		OK
3	S10.0	S10.0	CAL3	10/18/17 17:08		OK
4	S100.0	S100.0	CAL4	10/18/17 17:08		OK
5	S250.0	S250.0	CAL5	10/18/17 17:08		OK
6	S500.0	S500.0	CAL6	10/18/17 17:08		OK
7	ICV	ICV	ICV	10/18/17 17:43		OK
8	ICB	ICB	ICB	10/18/17 17:43		OK
9	CCV001	CCV001	CCV	10/18/17 17:43		OK
10	CCB001	CCB001	CCB	10/18/17 17:43		OK
11	PB103178BL	PBS006	MB	10/18/17 17:43		OK
12	I5783-02	B-28(0.5-1.5)-100917	SAM	10/18/17 17:50		OK
13	I5789-01	B-38(FILL)_100917	SAM	10/18/17 17:50		OK
14	I5789-02	B-38(FILL)_100917D	DUP	10/18/17 17:50		OK
15	I5789-03	B-38(FILL)_100917S	MS	10/18/17 17:50		OK
16	I5789-04	B-38(0-1)_100917	SAM	10/18/17 17:50		OK
17	I5789-05	B-38(1-3)_100917	SAM	10/18/17 17:50		OK
18	I5789-06	B-8(5-6.25)_101017	SAM	10/18/17 17:50		OK
19	I5789-07	B-8(1.5-2.5)_101017	SAM	10/18/17 17:50		OK
20	I5789-08	B-7(0.5-1.5)_101017	SAM	10/18/17 17:50		OK
21	I5789-09	B-7(5-6)_101017	SAM	10/18/17 17:50		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB90923

Review By			Review On			
SubDirectory		LB90923		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58716,WP58715,WP58714,WP58713,WP58712,WP58711				
ICV Standard		WP58718				
CCV Standard		WP58719				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58889,WP55836,WP58653				
22	I5789-10	DUP-4	SAM	10/18/17 17:50		OK
23	I5789-11	B-66(1.5-2.5)_10101	SAM	10/18/17 17:58		OK
24	I5789-12	B-67(1.5-2.5)_10101	SAM	10/18/17 17:58		OK
25	I5789-13	B-66(2.5-4.5)_10101	SAM	10/18/17 17:58		OK
26	I5747-01A	B-23(0-1)-100517A	PS	10/18/17 17:58		OK
27	I5826-01	B-67(2.5-3.8)-101017	SAM	10/18/17 17:58		OK
28	I5826-02	B-63(0-1)-101117	SAM	10/18/17 17:58		OK
29	I5826-03	B-63(1-3)-101117	SAM	10/18/17 17:58		OK
30	I5826-05	B-61(5-6)-101117	SAM	10/18/17 17:58		OK
31	I5826-06	B-62(0-1)-101117	SAM	10/18/17 17:58		OK
32	I5826-07	B-62(5-5.5)-101117	SAM	10/18/17 18:05		OK
33	I5826-08	B-64(1.5-2.5)-101117	SAM	10/18/17 18:05		OK
34	I5826-09	B-64(2.5-4.5)-101117	SAM	10/18/17 18:05		OK
35	I5826-10	DUP-5	SAM	10/18/17 18:05		OK
36	I5826-12	B-19(0-1)-101117	SAM	10/18/17 18:05		OK
37	I5826-13	B-19(0-1)-101117D	DUP	10/18/17 18:05		OK
38	I5826-14	B-19(0-1)-101117S	MS	10/18/17 18:05		OK
39	PB103244BL	PBW005	MB	10/18/17 18:05		OK
40	I5826-11	EQB-3-101117	SAM	10/18/17 18:05		OK
41	I5783-01	B-28(1.5-2.75)-10091	SAM	10/18/17 18:09		OK
42	PB103243BL	PBS006	MB	10/18/17 18:25		OK
43	I5826-04	B-61(0-1)-101117	SAM	10/18/17 18:25		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 # LB90923

Review By		Review On				
SubDirectory		Test : Cyanide				
LB90923						
STD. NAME		STD REF.#				
ICAL Standard		WP58716,WP58715,WP58714,WP58713,WP58712,WP58711				
ICV Standard		WP58718				
CCV Standard		WP58719				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58889,WP55836,WP58653				
44	CCV002	CCV002	CCV	10/18/17 18:31		OK
45	CCB002	CCB002	CCB	10/18/17 18:31		OK



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Report of Analysis

Client:		Date Collected:	10/9/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/9/2017 12:00:00 AM
Client Sample ID:	B-28(1.5-2.75)-100917	SDG No.:	LB90923
Lab Sample ID:	I5783-01	Matrix:	Solid
Level (low/med):	low	% Solid:	71.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.44	J	1	0.074	0.017	0.67	mg/kg	10/11/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/9/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/9/2017 12:00:00 AM
Client Sample ID:	B-28(0.5-1.5)-100917	SDG No.:	LB90923
Lab Sample ID:	I5783-02	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	0.083	J	1	0.058	0.013	0.53	mg/kg	10/11/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/9/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/10/2017 12:00:00 AM
Client Sample ID:	B-38(FILL)_100917	SDG No.:	LB90923
Lab Sample ID:	I5789-01	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	1.8		1	0.058	0.013	0.53	mg/kg	10/11/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/9/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/10/2017 12:00:00 AM
Client Sample ID:	B-38(FILL)_100917D	SDG No.:	LB90923
Lab Sample ID:	I5789-02	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	1.8		1	0.057	0.013	0.52	mg/kg	10/11/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/9/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/10/2017 12:00:00 AM
Client Sample ID:	B-38(1-3)_100917	SDG No.:	LB90923
Lab Sample ID:	I5789-05	Matrix:	Solid
Level (low/med):	low	% Solid:	78.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.02	U	1	0.065	0.015	0.59	mg/kg	10/11/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/10/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/10/2017 12:00:00 AM
Client Sample ID:	B-8(5-6.25)_101017	SDG No.:	LB90923
Lab Sample ID:	I5789-06	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	U	1	0.056	0.013	0.51	mg/kg	10/11/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/10/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/10/2017 12:00:00 AM
Client Sample ID:	B-8(1.5-2.5)_101017	SDG No.:	LB90923
Lab Sample ID:	I5789-07	Matrix:	Solid
Level (low/med):	low	% Solid:	87.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.023	U	1	0.06	0.014	0.54	mg/kg	10/11/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/10/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/10/2017 12:00:00 AM
Client Sample ID:	B-7(0.5-1.5)_101017	SDG No.:	LB90923
Lab Sample ID:	I5789-08	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	0.65		1	0.059	0.013	0.53	mg/kg	10/11/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/10/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/10/2017 12:00:00 AM
Client Sample ID:	B-7(5-6)_101017	SDG No.:	LB90923
Lab Sample ID:	I5789-09	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	0.27	J	1	0.057	0.013	0.52	mg/kg	10/11/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/10/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/10/2017 12:00:00 AM
Client Sample ID:	DUP-4	SDG No.:	LB90923
Lab Sample ID:	I5789-10	Matrix:	Solid
Level (low/med):	low	% Solid:	90.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.058	0.013	0.52	mg/kg	10/11/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/10/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/10/2017 12:00:00 AM
Client Sample ID:	B-66(1.5-2.5)_101017	SDG No.:	LB90923
Lab Sample ID:	I5789-11	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	7.5		1	0.056	0.013	0.51	mg/kg	10/11/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/10/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/10/2017 12:00:00 AM
Client Sample ID:	B-67(1.5-2.5)_101017	SDG No.:	LB90923
Lab Sample ID:	I5789-12	Matrix:	Solid
Level (low/med):	low	% Solid:	92.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.039	U	1	0.058	0.013	0.53	mg/kg	10/11/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/10/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/10/2017 12:00:00 AM
Client Sample ID:	B-66(2.5-4.5)_101017	SDG No.:	LB90923
Lab Sample ID:	I5789-13	Matrix:	Solid
Level (low/med):	low	% Solid:	86.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	3.1		1	0.061	0.014	0.56	mg/kg	10/11/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/10/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/11/2017 12:00:00 AM
Client Sample ID:	B-67(2.5-3.8)-101017	SDG No.:	LB90923
Lab Sample ID:	I5826-01	Matrix:	Solid
Level (low/med):	low	% Solid:	80

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	9.2		1	0.066	0.015	0.6	mg/kg	10/13/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/11/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/11/2017 12:00:00 AM
Client Sample ID:	B-63(0-1)-101117	SDG No.:	LB90923
Lab Sample ID:	I5826-02	Matrix:	Solid
Level (low/med):	low	% Solid:	91.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.24	J	1	0.057	0.013	0.52	mg/kg	10/13/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/11/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/11/2017 12:00:00 AM
Client Sample ID:	B-63(1-3)-101117	SDG No.:	LB90923
Lab Sample ID:	I5826-03	Matrix:	Solid
Level (low/med):	low	% Solid:	92.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.08	J	1	0.057	0.013	0.52	mg/kg	10/13/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/11/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/11/2017 12:00:00 AM
Client Sample ID:	B-61(0-1)-101117	SDG No.:	LB90923
Lab Sample ID:	I5826-04	Matrix:	Solid
Level (low/med):	low	% Solid:	91.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.31	J	1	0.057	0.013	0.52	mg/kg	10/13/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/11/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/11/2017 12:00:00 AM
Client Sample ID:	B-61(5-6)-101117	SDG No.:	LB90923
Lab Sample ID:	I5826-05	Matrix:	Solid
Level (low/med):	low	% Solid:	91.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.004	U	1	0.058	0.013	0.53	mg/kg	10/13/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/11/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/11/2017 12:00:00 AM
Client Sample ID:	B-62(0-1)-101117	SDG No.:	LB90923
Lab Sample ID:	I5826-06	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	0.22	J	1	0.057	0.013	0.52	mg/kg	10/13/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/11/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/11/2017 12:00:00 AM
Client Sample ID:	B-62(5-5.5)-101117	SDG No.:	LB90923
Lab Sample ID:	I5826-07	Matrix:	Solid
Level (low/med):	low	% Solid:	87.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.56		1	0.061	0.014	0.56	mg/kg	10/13/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/11/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/11/2017 12:00:00 AM
Client Sample ID:	B-64(1.5-2.5)-101117	SDG No.:	LB90923
Lab Sample ID:	I5826-08	Matrix:	Solid
Level (low/med):	low	% Solid:	90.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	1.1		1	0.058	0.013	0.52	mg/kg	10/13/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/11/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/11/2017 12:00:00 AM
Client Sample ID:	B-64(2.5-4.5)-101117	SDG No.:	LB90923
Lab Sample ID:	I5826-09	Matrix:	Solid
Level (low/med):	low	% Solid:	87.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.72		1	0.06	0.014	0.55	mg/kg	10/13/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/11/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/11/2017 12:00:00 AM
Client Sample ID:	DUP-5	SDG No.:	LB90923
Lab Sample ID:	I5826-10	Matrix:	Solid
Level (low/med):	low	% Solid:	91.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.57		1	0.059	0.013	0.54	mg/kg	10/13/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/11/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/11/2017 12:00:00 AM
Client Sample ID:	EQB-3-101117	SDG No.:	LB90923
Lab Sample ID:	I5826-11	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.38	U	1	1.5	5	10	ug/L	10/13/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/11/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/11/2017 12:00:00 AM
Client Sample ID:	B-19(0-1)-101117	SDG No.:	LB90923
Lab Sample ID:	I5826-12	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	0.4	J	1	0.061	0.014	0.56	mg/kg	10/13/2017	10/18/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/11/2017 12:00:00 AM
Project:	LB90923	Date Received:	10/11/2017 12:00:00 AM
Client Sample ID:	B-19(0-1)-101117	SDG No.:	LB90923
Lab Sample ID:	I5826-12	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.
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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
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SAMPLE PREPARATION SUMMARY

Client: <u>LB90923</u>	SDG No.: <u>LB90923</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB90923</u>	SAS No.: <u>LB90923</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB103178							
PB103178BL	PBS006	MB	SOLID	10/18/2017	1.02	50.0	100.00
I5783-02	B-28(0.5-1.5)-100917	SAM	SOLID	10/18/2017	1.05	50.0	89.60
I5789-01	B-38(FILL)_100917	SAM	SOLID	10/18/2017	1.03	50.0	92.40
I5789-02	B-38(FILL)_100917D	SAM	SOLID	10/18/2017	1.04	50.0	92.40
I5789-03	B-38(FILL)_100917S	DUP	SOLID	10/18/2017	1.05	50.0	92.40
I5789-04	B-38(0-1)_100917	MS	SOLID	10/18/2017	1.06	50.0	89.50
I5789-05	B-38(1-3)_100917	SAM	SOLID	10/18/2017	1.07	50.0	78.90
I5789-06	B-8(5-6.25)_101017	SAM	SOLID	10/18/2017	1.08	50.0	90.50
I5789-07	B-8(1.5-2.5)_101017	SAM	SOLID	10/18/2017	1.05	50.0	87.70
I5789-08	B-7(0.5-1.5)_101017	SAM	SOLID	10/18/2017	1.04	50.0	90.40
I5789-09	B-7(5-6)_101017	SAM	SOLID	10/18/2017	1.06	50.0	90.60
I5789-10	DUP-4	SAM	SOLID	10/18/2017	1.05	50.0	90.80
I5789-11	B-66(1.5-2.5)_101017	SAM	SOLID	10/18/2017	1.06	50.0	91.90
I5789-12	B-67(1.5-2.5)_101017	SAM	SOLID	10/18/2017	1.02	50.0	92.80
I5789-13	B-66(2.5-4.5)_101017	SAM	SOLID	10/18/2017	1.04	50.0	86.20
I5783-01	B-28(1.5-2.75)-100917	SAM	SOLID	10/18/2017	1.04	50.0	71.60



Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client:	<u>LB90923</u>	SDG No.:	<u>LB90923</u>
Contract:	<u> </u>	Lab Code:	<u>CHEM</u>
		Method:	<u> </u>
		Case No.:	<u>LB90923</u>
		SAS No.:	<u>LB90923</u>

					Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date			
Batch Number: PB103243							
I5826-01	B-67(2.5-3.8)-101017	SAM	SOLID	10/18/2017	1.04	50.0	80.00
I5826-02	B-63(0-1)-101117	SAM	SOLID	10/18/2017	1.05	50.0	91.60
I5826-03	B-63(1-3)-101117	SAM	SOLID	10/18/2017	1.04	50.0	92.50
I5826-05	B-61(5-6)-101117	SAM	SOLID	10/18/2017	1.03	50.0	91.50
I5826-06	B-62(0-1)-101117	SAM	SOLID	10/18/2017	1.04	50.0	92.40
I5826-07	B-62(5-5.5)-101117	SAM	SOLID	10/18/2017	1.03	50.0	87.40
I5826-08	B-64(1.5-2.5)-101117	SAM	SOLID	10/18/2017	1.05	50.0	90.80
I5826-09	B-64(2.5-4.5)-101117	SAM	SOLID	10/18/2017	1.04	50.0	87.90
I5826-10	DUP-5	SAM	SOLID	10/18/2017	1.02	50.0	91.70
I5826-12	B-19(0-1)-101117	SAM	SOLID	10/18/2017	1.03	50.0	87.20
I5826-13	B-19(0-1)-101117D	DUP	SOLID	10/18/2017	1.04	50.0	87.20
I5826-14	B-19(0-1)-101117S	MS	SOLID	10/18/2017	1.02	50.0	87.20
PB103243BL	PBS006	MB	SOLID	10/18/2017	1.02	50.0	100.00
I5826-04	B-61(0-1)-101117	SAM	SOLID	10/18/2017	1.05	50.0	91.30

Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client:	<u>LB90923</u>	SDG No.:	<u>LB90923</u>
Contract:	<u> </u>	Lab Code:	<u>CHEM</u>
		Method:	<u> </u>
		Case No.:	<u>LB90923</u>
		SAS No.:	<u>LB90923</u>

						Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date				
Batch Number: PB103244								
PB103244BL	PBW005	MB	WATER	10/18/2017		50.0	50.0	
I5826-11	EQB-3-101117	SAM	WATER	10/18/2017		50.0	50.0	

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB90923 Contract: _____
Lab Code: CHEM Case No.: LB90923 MA No.: _____ SDG No.: LB90923
Instrument ID: CN Start Date: 10/18/2017
Analytical Method: _____ Run Batch: LB90923.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0	0	5	4.1	-18	10	9.9	-1

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB90923 Contract: _____
Lab Code: CHEM Case No.: LB90923 MA No.: _____ SDG No.: LB90923
Instrument ID: CN Start Date: 10/18/2017
Analytical Method: _____ Run Batch: LB90923.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	100	0	250	252	1	500	499	0



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90923

SDG No.: LB90923

Contract: _____ **Lab Code:** CHEM

Case No.: LB90923 **SAS No.:** LB90923

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	98.1	99	99	0	85 - 115	CN	10/18/2017	17:43	LB90923



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90923

SDG No.: LB90923

Contract: _____ **Lab Code:** CHEM

Case No.: LB90923

SAS No.: LB90923

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	10/18/2017	17:43	LB90923
CCV002	Cyanide	256	250	102	0	85 - 115	CN	10/18/2017	18:31	LB90923



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90923 **SDG No.:** LB90923
Contract: **Lab Code:** CHEM **Case No.:** LB90923 **SAS No.:** LB90923

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	10/18/2017	17:43	LB90923



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90923

SDG No.: LB90923

Contract:

Lab Code: CHEM

Case No.: LB90923

SAS No.: LB90923

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	0.12	+/-10.0	U	5.0	10.0	CN	10/18/2017	17:43	LB90923
CCB002	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	10/18/2017	18:31	LB90923



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90923

SDG No.: LB90923

Contract: Lab Code: CHEM

Case No.: LB90923

SAS No.: LB90923

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: LB90923

SDG No.: LB90923

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB103178BL		SOLID		Batch Number:	PB103178			Prep Date:	10/11/2017	
	Cyanide	0.054	<0.49	U	0.012	0.49	CN	10/18/2017	17:43	LB90923
Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB103243BL		SOLID		Batch Number:	PB103243			Prep Date:	10/13/2017	
	Cyanide	0.054	<0.49	U	0.012	0.49	CN	10/18/2017	18:25	LB90923
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB103244BL		WATER		Batch Number:	PB103244			Prep Date:	10/13/2017	
	Cyanide	1.5	<10	U	5.0	10	CN	10/18/2017	18:05	LB90923



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB90923 level: low sdg no.: LB90923
contract: lab code: CHEM case no.: LB90923 sas no.: LB90923
matrix: Solid sample id: I5789-01 client id: B-38(FILL)_100917S
Percent Solids for Sample: 92.4 Spiked ID: I5789-03 Percent Solids for Spike Sample: 92.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	7.4		1.8		5.2	107		CN



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB90923 level: low sdg no.: LB90923
contract: lab code: CHEM case no.: LB90923 sas no.: LB90923
matrix: Solid sample id: I5826-12 client id: B-19(0-1)-101117S
Percent Solids for Sample: 87.2 Spiked ID: I5826-14 Percent Solids for Spike Sample: 87.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	5.4		0.4	J	5.6	90		CN

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB90923 **Level:** LOW **SDG No.:** LB90923
Contract: **Lab Code:** CHEM **Case No.:** LB90923 **SAS No.:** LB90923
Matrix: Solid **Sample ID:** I5789-01 **Client ID:** B-38(FILL)_100917D
Percent Solids for Sample: 92.4 **Duplicate ID** I5789-02 **Percent Solids for Spike Sample:** 92.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	1.8		1.8		0		CN

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB90923 **Level:** LOW **SDG No.:** LB90923
Contract: **Lab Code:** CHEM **Case No.:** LB90923 **SAS No.:** LB90923
Matrix: Solid **Sample ID:** I5826-12 **Client ID:** B-19(0-1)-101117D
Percent Solids for Sample: 87.2 **Duplicate ID** I5826-13 **Percent Solids for Spike Sample:** 87.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.4	J	0.4	J	0		CN