

Daily Analysis Runlog For Sequence/QC Batch ID # LB85582

Review By

Review On

SubDirectory

LB85582

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP52527,WP52576,WP52525,WP52524,WP52523,WP52522				
ICV Standard		WP52528				
CCV Standard		WP52529				
ICSA Standard						
CRI Standard						
LCS Standard						
Chk Standard		WP52581,WP51626,WP50159,WP51615				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	01/30/17 10:16		OK
2	S5.0	S5.0	CAL2	01/30/17 10:16		OK
3	S10.0	S10.0	CAL3	01/30/17 10:16		OK
4	S100.0	S100.0	CAL4	01/30/17 10:16		OK
5	S250.0	S250.0	CAL5	01/30/17 10:16		OK
6	S500.0	S500.0	CAL6	01/30/17 10:16		OK
7	ICV	ICV	ICV	01/30/17 11:04		OK
8	ICB	ICB	ICB	01/30/17 11:04		OK
9	CCV004	CCV004	CCV	01/30/17 11:04		OK
10	CCB004	CCB004	CCB	01/30/17 11:04		OK
11	PB96414BL	PBS006	MB	01/30/17 11:04		OK
12	I1501-01	MBDMT3	SAM	01/30/17 11:04		OK
13	I1501-02	MBDMT3D	DUP	01/30/17 11:04		OK
14	I1501-03	MBDMT3S	MS	01/30/17 11:04		OK
15	I1501-04	MBDMT4	SAM	01/30/17 11:04		OK
16	I1501-05	MBDMT5	SAM	01/30/17 11:04		OK
17	I1501-06	MBDMT6	SAM	01/30/17 11:04		OK
18	I1501-07	MBDMT7	SAM	01/30/17 11:12		OK
19	I1501-08	MBDMT8	SAM	01/30/17 11:12		OK
20	I1501-09	MBDMT9	SAM	01/30/17 11:12		OK
21	I1501-10	MBDMW0	SAM	01/30/17 11:12		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB85582

Review By			Review On			
SubDirectory		LB85582		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP52527,WP52576,WP52525,WP52524,WP52523,WP52522				
ICV Standard		WP52528				
CCV Standard		WP52529				
ICSA Standard						
CRI Standard						
LCS Standard						
Chk Standard		WP52581,WP51626,WP50159,WP51615				
22	I1501-11	MBDMW1	SAM	01/30/17 11:12		OK
23	I1501-12	MBDMW2	SAM	01/30/17 11:12		OK
24	I1501-13	MBDMW3	SAM	01/30/17 11:12		OK
25	I1501-14	MBDMW4	SAM	01/30/17 11:12		OK
26	I1501-15	MBDMW5	SAM	01/30/17 11:12		OK
27	PB96415BL	PBS006	MB	01/30/17 11:12		OK
28	I1462-01	MBDPA1	SAM	01/30/17 11:12		OK
29	I1462-02	MBDPA1D	DUP	01/30/17 11:19		OK
30	I1462-03	MBDPA1S	MS	01/30/17 11:19		OK
31	I1462-04	MBDPA2	SAM	01/30/17 11:19		OK
32	PB96419BL	PBW005	MB	01/30/17 11:19		OK
33	I1462-05	MBDPB3	SAM	01/30/17 11:19		OK
34	I1463-19	MBDMZ9	SAM	01/30/17 11:19		OK
35	I1463-20	MBDN00	SAM	01/30/17 11:19		OK
36	I1501-16	MBDMX3	SAM	01/30/17 11:19		OK
37	I1501-17	MBDMX4	SAM	01/30/17 11:19		OK
38	I1501-18	MBDN57	SAM	01/30/17 11:19		OK
39	CCV005	CCV005	CCV	01/30/17 11:19		OK
40	CCB005	CCB005	CCB	01/30/17 11:23		OK



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

Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDPA1	SDG No.:	LB85582
Lab Sample ID:	I1462-01	Matrix:	Solid
Level (low/med):	low	% Solid:	71.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.075	0.017	0.68	mg/kg	01/27/2017	01/30/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDPA2	SDG No.:	LB85582
Lab Sample ID:	I1462-04	Matrix:	Solid
Level (low/med):	low	% Solid:	70.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.075	0.017	0.68	mg/kg	01/27/2017	01/30/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDPB3	SDG No.:	LB85582
Lab Sample ID:	I1462-05	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	U	1	1.5	5	10	ug/L	01/27/2017	01/30/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDMZ9	SDG No.:	LB85582
Lab Sample ID:	I1463-19	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	U	1	1.5	5	10	ug/L	01/27/2017	01/30/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/24/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDN00	SDG No.:	LB85582
Lab Sample ID:	I1463-20	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	U	1	1.5	5	10	ug/L	01/27/2017	01/30/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/24/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/26/2017 12:00:00 AM
Client Sample ID:	MBDMT3	SDG No.:	LB85582
Lab Sample ID:	I1501-01	Matrix:	Solid
Level (low/med):	low	% Solid:	81.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.066	0.015	0.6	mg/kg	01/27/2017	01/30/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/24/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/26/2017 12:00:00 AM
Client Sample ID:	MBDMT4	SDG No.:	LB85582
Lab Sample ID:	I1501-04	Matrix:	Solid
Level (low/med):	low	% Solid:	77.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.07	0.016	0.64	mg/kg	01/27/2017	01/30/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/24/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/26/2017 12:00:00 AM
Client Sample ID:	MBDMT5	SDG No.:	LB85582
Lab Sample ID:	I1501-05	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	U	1	0.058	0.013	0.53	mg/kg	01/27/2017	01/30/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/25/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/26/2017 12:00:00 AM
Client Sample ID:	MBDMT6	SDG No.:	LB85582
Lab Sample ID:	I1501-06	Matrix:	Solid
Level (low/med):	low	% Solid:	87.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.06	0.014	0.55	mg/kg	01/27/2017	01/30/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/25/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/26/2017 12:00:00 AM
Client Sample ID:	MBDMT7	SDG No.:	LB85582
Lab Sample ID:	I1501-07	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	U	1	0.06	0.014	0.54	mg/kg	01/27/2017	01/30/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/25/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/26/2017 12:00:00 AM
Client Sample ID:	MBDMT8	SDG No.:	LB85582
Lab Sample ID:	I1501-08	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	0.057	0.013	0.52	mg/kg	01/27/2017	01/30/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/25/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/26/2017 12:00:00 AM
Client Sample ID:	MBDMT9	SDG No.:	LB85582
Lab Sample ID:	I1501-09	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	0.025	U	1	0.075	0.017	0.68	mg/kg	01/27/2017	01/30/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/25/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/26/2017 12:00:00 AM
Client Sample ID:	MBDMW0	SDG No.:	LB85582
Lab Sample ID:	I1501-10	Matrix:	Solid
Level (low/med):	low	% Solid:	79.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.067	0.015	0.61	mg/kg	01/27/2017	01/30/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/25/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/26/2017 12:00:00 AM
Client Sample ID:	MBDMW1	SDG No.:	LB85582
Lab Sample ID:	I1501-11	Matrix:	Solid
Level (low/med):	low	% Solid:	87.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.01	U	1	0.061	0.014	0.55	mg/kg	01/27/2017	01/30/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/25/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/26/2017 12:00:00 AM
Client Sample ID:	MBDMW2	SDG No.:	LB85582
Lab Sample ID:	I1501-12	Matrix:	Solid
Level (low/med):	low	% Solid:	81.6

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	01/27/2017	01/30/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/25/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/26/2017 12:00:00 AM
Client Sample ID:	MBDMW3	SDG No.:	LB85582
Lab Sample ID:	I1501-13	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	U	1	0.072	0.016	0.66	mg/kg	01/27/2017	01/30/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/25/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/26/2017 12:00:00 AM
Client Sample ID:	MBDMW4	SDG No.:	LB85582
Lab Sample ID:	I1501-14	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	U	1	0.059	0.013	0.54	mg/kg	01/27/2017	01/30/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/25/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/26/2017 12:00:00 AM
Client Sample ID:	MBDMW5	SDG No.:	LB85582
Lab Sample ID:	I1501-15	Matrix:	Solid
Level (low/med):	low	% Solid:	86.8

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	01/27/2017	01/30/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/24/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/26/2017 12:00:00 AM
Client Sample ID:	MBDMX3	SDG No.:	LB85582
Lab Sample ID:	I1501-16	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	0.11	U	1	1.5	5	10	ug/L	01/27/2017	01/30/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/25/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/26/2017 12:00:00 AM
Client Sample ID:	MBDMX4	SDG No.:	LB85582
Lab Sample ID:	I1501-17	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	U	1	1.5	5	10	ug/L	01/27/2017	01/30/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/25/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/26/2017 12:00:00 AM
Client Sample ID:	MBDN57	SDG No.:	LB85582
Lab Sample ID:	I1501-18	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	0.17	U	1	1.5	5	10	ug/L	01/27/2017	01/30/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/25/2017 12:00:00 AM
Project:	LB85582	Date Received:	1/26/2017 12:00:00 AM
Client Sample ID:	MBDN57	SDG No.:	LB85582
Lab Sample ID:	I1501-18	Matrix:	WATER
Level (low/med):	low	% Solid:	0

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: LB85582 **SDG No.:** LB85582
Contract: **Lab Code:** CHEM **Method:**
Case No.: LB85582 **SAS No.:** LB85582

						Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date				
Batch Number: PB96414								
PB96414BL	PBS006	MB	SOLID	01/30/2017		1.00	50.0	100.00
I1501-01	MBDMT3	SAM	SOLID	01/30/2017		1.03	50.0	81.20
I1501-02	MBDMT3D	DUP	SOLID	01/30/2017		1.04	50.0	81.20
I1501-03	MBDMT3S	MS	SOLID	01/30/2017		1.03	50.0	81.20
I1501-04	MBDMT4	SAM	SOLID	01/30/2017		1.02	50.0	77.10
I1501-05	MBDMT5	SAM	SOLID	01/30/2017		1.04	50.0	91.40
I1501-06	MBDMT6	SAM	SOLID	01/30/2017		1.04	50.0	87.60
I1501-07	MBDMT7	SAM	SOLID	01/30/2017		1.03	50.0	89.30
I1501-08	MBDMT8	SAM	SOLID	01/30/2017		1.04	50.0	93.30
I1501-09	MBDMT9	SAM	SOLID	01/30/2017		1.06	50.0	69.60
I1501-10	MBDMW0	SAM	SOLID	01/30/2017		1.04	50.0	79.30
I1501-11	MBDMW1	SAM	SOLID	01/30/2017		1.03	50.0	87.60
I1501-12	MBDMW2	SAM	SOLID	01/30/2017		1.02	50.0	81.60
I1501-13	MBDMW3	SAM	SOLID	01/30/2017		1.04	50.0	73.10
I1501-14	MBDMW4	SAM	SOLID	01/30/2017		1.03	50.0	90.00
I1501-15	MBDMW5	SAM	SOLID	01/30/2017		1.02	50.0	86.80

Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: <u>LB85582</u>	SDG No.: <u>LB85582</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB85582</u>	SAS No.: <u>LB85582</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB96415							
PB96415BL	PBS006	MB	SOLID	01/30/2017	1.00	50.0	100.00
I1462-01	MBDPA1	SAM	SOLID	01/30/2017	1.03	50.0	71.40
I1462-02	MBDPA1D	DUP	SOLID	01/30/2017	1.02	50.0	71.40
I1462-03	MBDPA1S	MS	SOLID	01/30/2017	1.05	50.0	71.40
I1462-04	MBDPA2	SAM	SOLID	01/30/2017	1.04	50.0	70.80



Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: LB85582 SDG No.: LB85582
Contract: Lab Code: CHEM Method:
Case No.: LB85582 SAS No.: LB85582

						Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date				
Batch Number: PB96419								
PB96419BL	PBW005	MB	WATER	01/30/2017		50.0	50.0	
I1462-05	MBDPB3	SAM	WATER	01/30/2017		50.0	50.0	
I1463-19	MBDMZ9	SAM	WATER	01/30/2017		50.0	50.0	
I1463-20	MBDN00	SAM	WATER	01/30/2017		50.0	50.0	
I1501-16	MBDMX3	SAM	WATER	01/30/2017		50.0	50.0	
I1501-17	MBDMX4	SAM	WATER	01/30/2017		50.0	50.0	
I1501-18	MBDN57	SAM	WATER	01/30/2017		50.0	50.0	

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB85582 Contract: _____
Lab Code: CHEM Case No.: LB85582 MA No.: _____ SDG No.: LB85582
Instrument ID: CN Start Date: 01/30/2017
Analytical Method: _____ Run Batch: LB85582.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0	0	5	4.6	-8	10	10.1	1

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB85582 Contract: _____
Lab Code: CHEM Case No.: LB85582 MA No.: _____ SDG No.: LB85582
Instrument ID: CN Start Date: 01/30/2017
Analytical Method: _____ Run Batch: LB85582.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	101	1	250	251	0	500	500	0



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB85582

SDG No.: LB85582

Contract: _____ Lab Code: CHEM

Case No.: LB85582

SAS No.: LB85582

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	94.4	99	95	0	85 - 115	CN	01/30/2017	11:04	LB85582



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB85582

SDG No.: LB85582

Contract: _____ Lab Code: CHEM

Case No.: LB85582

SAS No.: LB85582

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
CCV004	Cyanide	240	250	96	0	85 - 115	CN	01/30/2017	11:04	LB85582
CCV005	Cyanide	241	250	96	0	85 - 115	CN	01/30/2017	11:19	LB85582



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85582 **SDG No.:** LB85582
Contract: **Lab Code:** CHEM **Case No.:** LB85582 **SAS No.:** LB85582

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	01/30/2017	11:04	LB85582



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85582

SDG No.: LB85582

Contract:

Lab Code: CHEM

Case No.: LB85582

SAS No.: LB85582

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB004	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	01/30/2017	11:04	LB85582
CCB005	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	01/30/2017	11:23	LB85582



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85582

SDG No.: LB85582

Contract: Lab Code: CHEM

Case No.: LB85582

SAS No.: LB85582

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: LB85582

SDG No.: LB85582

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB96414BL	SOLID		Batch Number:		PB96414		Prep Date:		01/27/2017	
	Cyanide	0.055	<0.5	U	0.013	0.5	CN	01/30/2017	11:04	LB85582
Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB96415BL	SOLID		Batch Number:		PB96415		Prep Date:		01/27/2017	
	Cyanide	0.055	<0.5	U	0.013	0.5	CN	01/30/2017	11:12	LB85582
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB96419BL	WATER		Batch Number:		PB96419		Prep Date:		01/27/2017	
	Cyanide	1.5	<10	U	5.0	10	CN	01/30/2017	11:19	LB85582



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB85582 level: low sdg no.: LB85582
contract: lab code: CHEM case no.: LB85582 sas no.: LB85582
matrix: Solid sample id: I1462-01 client id: MBDPA1S
Percent Solids for Sample: 71.4 Spiked ID: I1462-03 Percent Solids for Spike Sample: 71.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	6.2		0.68	U	6.7	93		CN



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB85582 level: low sdg no.: LB85582
contract: lab code: CHEM case no.: LB85582 sas no.: LB85582
matrix: Solid sample id: I1501-01 client id: MBDMT3S
Percent Solids for Sample: 81.2 Spiked ID: I1501-03 Percent Solids for Spike Sample: 81.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	4.6		0.6	U	6	77		CN

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB85582 **Level:** LOW **SDG No.:** LB85582
Contract: **Lab Code:** CHEM **Case No.:** LB85582 **SAS No.:** LB85582
Matrix: Solid **Sample ID:** I1462-01 **Client ID:** MBDPA1D
Percent Solids for Sample: 71.4 **Duplicate ID** I1462-02 **Percent Solids for Spike Sample:** 71.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.68	U	0.013	U			CN

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB85582 **Level:** LOW **SDG No.:** LB85582
Contract: **Lab Code:** CHEM **Case No.:** LB85582 **SAS No.:** LB85582
Matrix: Solid **Sample ID:** I1501-01 **Client ID:** MBDMT3D
Percent Solids for Sample: 81.2 **Duplicate ID** I1501-02 **Percent Solids for Spike Sample:** 81.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.6	U	0.012	U			CN