

Daily Analysis Runlog For Sequence/QC Batch ID # LB86895

Review By		Review On				
SubDirectory		LB86895		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP54182,WP54181,WP54180,WP54179,WP54178,WP54177				
ICV Standard		WP54183				
CCV Standard		WP54185				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54210,WP51276,WP53945				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	04/14/17 09:53		OK
2	S5.0	S5.0	CAL2	04/14/17 09:53		OK
3	S10.0	S10.0	CAL3	04/14/17 09:53		OK
4	S100.0	S100.0	CAL4	04/14/17 09:53		OK
5	S250.0	S250.0	CAL5	04/14/17 09:53		OK
6	S500.0	S500.0	CAL6	04/14/17 09:53		OK
7	ICV	ICV	ICV	04/14/17 10:31		OK
8	ICB	ICB	ICB	04/14/17 10:31		OK
9	CCV001	CCV001	CCV	04/14/17 10:31		OK
10	CCB001	CCB001	CCB	04/14/17 10:31		OK
11	PB98245BL	PBS006	MB	04/14/17 10:31		OK
12	I2643-01	MF4B10	SAM	04/14/17 10:31		OK
13	I2643-02	MF4B11	SAM	04/14/17 10:31		OK
14	I2643-03	MF4B12	SAM	04/14/17 10:31		OK
15	I2643-04	MF4B13	SAM	04/14/17 10:31		OK
16	I2643-05	MF4B14	SAM	04/14/17 10:39		OK
17	I2643-06	MF4B15	SAM	04/14/17 10:39		OK
18	I2643-07	MF4B15D	DUP	04/14/17 10:39		OK
19	I2643-09	MF4B16	SAM	04/14/17 10:39		OK
20	I2643-10	MF4B17	SAM	04/14/17 10:39		OK
21	I2643-12	MF4B19	SAM	04/14/17 10:39		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB86895

Review By			Review On			
SubDirectory		LB86895		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP54182,WP54181,WP54180,WP54179,WP54178,WP54177				
ICV Standard		WP54183				
CCV Standard		WP54185				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54210,WP51276,WP53945				
22	I2643-13	MF4B76	SAM	04/14/17 10:39		OK
23	I2643-14	MF4B79	SAM	04/14/17 10:39		OK
24	I2643-15	MF4C09	SAM	04/14/17 10:39		OK
25	I2643-16	MF4C26	SAM	04/14/17 10:45		OK
26	I2643-17	MF4C27	SAM	04/14/17 10:45		OK
27	I2643-18	MF4C28	SAM	04/14/17 10:45		OK
28	I2643-19	MF4C29	SAM	04/14/17 10:45		OK
29	I2643-20	MF4C30	SAM	04/14/17 10:45		OK
30	I2643-21	MF4C31	SAM	04/14/17 10:45		OK
31	I2643-08	MF4B15S	MS	04/14/17 11:05		OK
32	I2643-11	MF4B18	SAM	04/14/17 11:05		OK
33	CCV002	CCV002	CCV	04/14/17 11:05		OK
34	CCB002	CCB002	CCB	04/14/17 11:05		OK



Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: **LB86895**

SDG No.: LB86895Contract: _____ Lab Code: CHEM

Case No.: LB86895

SAS No.: LB86895

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	96.0	99	97	0	85 - 115	CN	04/14/2017	10:31	LB86895



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86895

SDG No.: LB86895

Contract: **Lab Code:** CHEM

Case No.: LB86895

SAS No.: LB86895

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								
CCV001	Cyanide	241	250	96	0	85 - 115	CN	04/14/2017	10:31	LB86895
CCV002	Cyanide	254	250	102	0	85 - 115	CN	04/14/2017	11:05	LB86895



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86895 **SDG No.:** LB86895
Contract: **Lab Code:** CHEM **Case No.:** LB86895 **SAS No.:** LB86895

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	04/14/2017	10:31	LB86895



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86895

SDG No.: LB86895

Contract:

Lab Code: CHEM

Case No.: LB86895

SAS No.: LB86895

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	0.73	+/-10.0	U	5.0	10.0	CN	04/14/2017	10:31	LB86895
CCB002	Cyanide	0.79	+/-10.0	U	5.0	10.0	CN	04/14/2017	11:05	LB86895



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86895

SDG No.: LB86895

Contract: Lab Code: CHEM

Case No.: LB86895

SAS No.: LB86895

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

Client:		Date Collected:	4/10/2017 12:00:00 AM
Project:	LB86895	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	MF4B10	SDG No.:	LB86895
Lab Sample ID:	I2643-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.033	U	1	0.057	0.013	0.52	mg/kg	04/13/2017	04/14/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/10/2017 12:00:00 AM
Project:	LB86895	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	MF4B11	SDG No.:	LB86895
Lab Sample ID:	I2643-02	Matrix:	Solid
Level (low/med):	low	% Solid:	90.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.018	U	1	0.059	0.013	0.53	mg/kg	04/13/2017	04/14/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/10/2017 12:00:00 AM
Project:	LB86895	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	MF4B12	SDG No.:	LB86895
Lab Sample ID:	I2643-03	Matrix:	Solid
Level (low/med):	low	% Solid:	88.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.024	U	1	0.06	0.014	0.54	mg/kg	04/13/2017	04/14/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/10/2017 12:00:00 AM
Project:	LB86895	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	MF4B13	SDG No.:	LB86895
Lab Sample ID:	I2643-04	Matrix:	Solid
Level (low/med):	low	% Solid:	85.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.012	U	1	0.061	0.014	0.56	mg/kg	04/13/2017	04/14/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/10/2017 12:00:00 AM
Project:	LB86895	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	MF4B14	SDG No.:	LB86895
Lab Sample ID:	I2643-05	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	0.11	J	1	0.06	0.014	0.55	mg/kg	04/13/2017	04/14/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/11/2017 12:00:00 AM
Project:	LB86895	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	MF4B15	SDG No.:	LB86895
Lab Sample ID:	I2643-06	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	0.078	J	1	0.057	0.013	0.52	mg/kg	04/13/2017	04/14/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/11/2017 12:00:00 AM
Project:	LB86895	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	MF4B16	SDG No.:	LB86895
Lab Sample ID:	I2643-09	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	0.038	U	1	0.057	0.013	0.52	mg/kg	04/13/2017	04/14/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/11/2017 12:00:00 AM
Project:	LB86895	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	MF4B17	SDG No.:	LB86895
Lab Sample ID:	I2643-10	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	0.03	U	1	0.062	0.014	0.56	mg/kg	04/13/2017	04/14/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/11/2017 12:00:00 AM
Project:	LB86895	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	MF4B18	SDG No.:	LB86895
Lab Sample ID:	I2643-11	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	0.096	J	1	0.059	0.013	0.54	mg/kg	04/13/2017	04/14/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/11/2017 12:00:00 AM
Project:	LB86895	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	MF4B19	SDG No.:	LB86895
Lab Sample ID:	I2643-12	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	0.02	U	1	0.06	0.014	0.55	mg/kg	04/13/2017	04/14/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/10/2017 12:00:00 AM
Project:	LB86895	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	MF4B76	SDG No.:	LB86895
Lab Sample ID:	I2643-13	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	0.032	U	1	0.061	0.014	0.55	mg/kg	04/13/2017	04/14/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/11/2017 12:00:00 AM
Project:	LB86895	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	MF4B79	SDG No.:	LB86895
Lab Sample ID:	I2643-14	Matrix:	Solid
Level (low/med):	low	% Solid:	85.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.06	0.014	0.55	mg/kg	04/13/2017	04/14/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/11/2017 12:00:00 AM
Project:	LB86895	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	MF4C09	SDG No.:	LB86895
Lab Sample ID:	I2643-15	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	0.012	U	1	0.066	0.015	0.6	mg/kg	04/13/2017	04/14/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/11/2017 12:00:00 AM
Project:	LB86895	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	MF4C26	SDG No.:	LB86895
Lab Sample ID:	I2643-16	Matrix:	Solid
Level (low/med):	low	% Solid:	89.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.067	J	1	0.059	0.013	0.53	mg/kg	04/13/2017	04/14/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/11/2017 12:00:00 AM
Project:	LB86895	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	MF4C27	SDG No.:	LB86895
Lab Sample ID:	I2643-17	Matrix:	Solid
Level (low/med):	low	% Solid:	82.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.059	U	1	0.063	0.014	0.57	mg/kg	04/13/2017	04/14/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86895	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C28	SDG No.:	LB86895
Lab Sample ID:	I2643-18	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	0.057	J	1	0.057	0.013	0.52	mg/kg	04/13/2017	04/14/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86895	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C29	SDG No.:	LB86895
Lab Sample ID:	I2643-19	Matrix:	Solid
Level (low/med):	low	% Solid:	92

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.001	U	1	0.057	0.013	0.52	mg/kg	04/13/2017	04/14/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86895	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C30	SDG No.:	LB86895
Lab Sample ID:	I2643-20	Matrix:	Solid
Level (low/med):	low	% Solid:	84.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.001	U	1	0.062	0.014	0.56	mg/kg	04/13/2017	04/14/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86895	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C31	SDG No.:	LB86895
Lab Sample ID:	I2643-21	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	0.094	J	1	0.059	0.013	0.54	mg/kg	04/13/2017	04/14/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86895	Date Received:	4/13/2017 12:00:00 AM
Client Sample ID:	MF4C31	SDG No.:	LB86895
Lab Sample ID:	I2643-21	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.
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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
- 3b -
PREPARATION BLANK SUMMARY

Client: LB86895

SDG No.: LB86895

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB98245BL		SOLID		Batch Number:		PB98245		Prep Date:	04/13/2017	
	Cyanide	0.016	<0.5	U	0.013	0.5	CN	04/14/2017	10:31	LB86895



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB86895 level: low sdg no.: LB86895
contract: lab code: CHEM case no.: LB86895 sas no.: LB86895
matrix: Solid sample id: I2643-06 client id: MF4B15S
Percent Solids for Sample: 93.3 Spiked ID: I2643-08 Percent Solids for Spike Sample: 93.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	4.1		0.078	J	5.1	79		CN

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB86895 **Level:** LOW **SDG No.:** LB86895
Contract: **Lab Code:** CHEM **Case No.:** LB86895 **SAS No.:** LB86895
Matrix: Solid **Sample ID:** I2643-06 **Client ID:** MF4B15D
Percent Solids for Sample: 93.3 **Duplicate ID** I2643-07 **Percent Solids for Spike Sample:** 93.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.078	J	0.055	U	200.0		CN

Metals
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SAMPLE PREPARATION SUMMARY

Client: <u>LB86895</u>	SDG No.: <u>LB86895</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB86895</u>	SAS No.: <u>LB86895</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB98245							
PB98245BL	PBS006	MB	SOLID	04/14/2017	1.00	50.0	100.00
I2643-01	MF4B10	SAM	SOLID	04/14/2017	1.04	50.0	92.90
I2643-02	MF4B11	SAM	SOLID	04/14/2017	1.03	50.0	90.90
I2643-03	MF4B12	SAM	SOLID	04/14/2017	1.04	50.0	88.60
I2643-04	MF4B13	SAM	SOLID	04/14/2017	1.05	50.0	85.20
I2643-05	MF4B14	SAM	SOLID	04/14/2017	1.06	50.0	86.60
I2643-06	MF4B15	SAM	SOLID	04/14/2017	1.04	50.0	93.30
I2643-07	MF4B15D	DUP	SOLID	04/14/2017	1.04	50.0	93.30
I2643-09	MF4B16	SAM	SOLID	04/14/2017	1.06	50.0	91.40
I2643-10	MF4B17	SAM	SOLID	04/14/2017	1.04	50.0	85.60
I2643-12	MF4B19	SAM	SOLID	04/14/2017	1.04	50.0	87.60
I2643-13	MF4B76	SAM	SOLID	04/14/2017	1.05	50.0	86.30
I2643-14	MF4B79	SAM	SOLID	04/14/2017	1.06	50.0	85.80
I2643-15	MF4C09	SAM	SOLID	04/14/2017	1.04	50.0	80.60
I2643-16	MF4C26	SAM	SOLID	04/14/2017	1.05	50.0	89.50
I2643-17	MF4C27	SAM	SOLID	04/14/2017	1.06	50.0	82.20
I2643-18	MF4C28	SAM	SOLID	04/14/2017	1.04	50.0	92.40
I2643-19	MF4C29	SAM	SOLID	04/14/2017	1.05	50.0	92.00
I2643-20	MF4C30	SAM	SOLID	04/14/2017	1.05	50.0	84.60
I2643-21	MF4C31	SAM	SOLID	04/14/2017	1.06	50.0	87.90
I2643-08	MF4B15S	MS	SOLID	04/14/2017	1.05	50.0	93.30
I2643-11	MF4B18	SAM	SOLID	04/14/2017	1.06	50.0	87.40

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB86895 Contract: _____
Lab Code: CHEM Case No.: LB86895 MA No.: _____ SDG No.: LB86895
Instrument ID: CN Start Date: 04/14/2017
Analytical Method: _____ Run Batch: LB86895.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0	0	5	4.9	-2	10	10.4	4

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB86895 Contract: _____
Lab Code: CHEM Case No.: LB86895 MA No.: _____ SDG No.: LB86895
Instrument ID: CN Start Date: 04/14/2017
Analytical Method: _____ Run Batch: LB86895.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	99.9	0	250	251	0	500	500	0