

Daily Analysis Runlog For Sequence/QC Batch ID # LB87217

Review By		Review On				
SubDirectory		LB87217		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP54587,WP54586,WP54585,WP54584,WP54583,WP54582				
ICV Standard		WP54588				
CCV Standard		WP54589				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54605,WP51626,WP53945,WP53908				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	05/03/17 11:48		OK
2	S5.0	S5.0	CAL2	05/03/17 11:48		OK
3	S10.0	S10.0	CAL3	05/03/17 11:48		OK
4	S100.0	S100.0	CAL4	05/03/17 11:48		OK
5	S250.0	S250.0	CAL5	05/03/17 11:48		OK
6	S500.0	S500.0	CAL6	05/03/17 11:48		OK
7	ICV	ICV	ICV	05/03/17 12:27		OK
8	ICB	ICB	ICB	05/03/17 12:27		OK
9	CCV001	CCV001	CCV	05/03/17 12:27		OK
10	CCB001	CCB001	CCB	05/03/17 12:27		OK
11	PB98636BL	PBS006	MB	05/03/17 12:27		OK
12	I2910-02	MF4E19	SAM	05/03/17 12:27		OK
13	I2910-03	MF4E19D	DUP	05/03/17 12:27		OK
14	I2910-04	MF4E19S	MS	05/03/17 12:27		OK
15	I2910-06	MF4E21	SAM	05/03/17 12:35		OK
16	I2910-07	MF4E22	SAM	05/03/17 12:35		OK
17	I2910-08	MF4E23	SAM	05/03/17 12:35		OK
18	I2910-09	MF4E24	SAM	05/03/17 12:35		OK
19	I2910-10	MF4E25	SAM	05/03/17 12:35		OK
20	I2910-11	MF4E26	SAM	05/03/17 12:35		OK
21	I2910-12	MF4E43	SAM	05/03/17 12:35		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB87217

Review By		Review On				
SubDirectory		LB87217		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP54587,WP54586,WP54585,WP54584,WP54583,WP54582				
ICV Standard		WP54588				
CCV Standard		WP54589				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54605,WP51626,WP53945,WP53908				
22	I2910-13	MF4E44	SAM	05/03/17 12:35		OK
23	I2910-14	MF4E45	SAM	05/03/17 12:35		OK
24	I2910-15	MF4E46	SAM	05/03/17 12:35		OK
25	I2910-16	MF4E47	SAM	05/03/17 12:35		OK
26	I2910-17	MF4E48	SAM	05/03/17 12:41		OK
27	I2910-18	MF4E50	SAM	05/03/17 12:41		OK
28	I2910-19	MF4E51	SAM	05/03/17 12:41		OK
29	I2910-20	MF4E52	SAM	05/03/17 12:41		OK
30	I2910-21	MF4E53	SAM	05/03/17 12:41		OK
31	CCV002	CCV002	CCV	05/03/17 12:41		OK
32	CCB002	CCB002	CCB	05/03/17 12:41		OK
33	I2910-05	MF4E20	SAM	05/03/17 13:00		OK
34	CCV003	CCV003	CCV	05/03/17 13:00		OK
35	CCB003	CCB003	CCB	05/03/17 13:00		OK



Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87217

SDG No.: LB87217

Contract: _____ Lab Code: CHEM

Case No.: LB87217 SAS No.: LB87217

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	96.2	99	97	0	85 - 115	CN	05/03/2017	12:27	LB87217



Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87217

SDG No.: LB87217

Contract: _____ Lab Code: CHEM

Case No.: LB87217

SAS No.: LB87217

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	241	250	96	0	85 - 115	CN	05/03/2017	12:27	LB87217
CCV002	Cyanide	245	250	98	0	85 - 115	CN	05/03/2017	12:41	LB87217
CCV003	Cyanide	256	250	102	0	85 - 115	CN	05/03/2017	13:00	LB87217



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87217 **SDG No.:** LB87217
Contract: **Lab Code:** CHEM **Case No.:** LB87217 **SAS No.:** LB87217

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB	Cyanide	0.27	+/-10.0	U	5.0	10.0	CN	05/03/2017	12:27	LB87217



Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87217

SDG No.: LB87217

Contract:

Lab Code: CHEM

Case No.: LB87217

SAS No.: LB87217

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	0.19	+/-10.0	U	5.0	10.0	CN	05/03/2017	12:27	LB87217
CCB002	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	05/03/2017	12:41	LB87217
CCB003	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	05/03/2017	13:00	LB87217



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87217

SDG No.: LB87217

Contract: Lab Code: CHEM

Case No.: LB87217

SAS No.: LB87217

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:	4/26/2017 12:00:00 AM
Project:	LB87217	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E19	SDG No.:	LB87217
Lab Sample ID:	I2910-02	Matrix:	Solid
Level (low/med):	low	% Solid:	86

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.061	0.014	0.56	mg/kg	05/02/2017	05/03/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87217	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E20	SDG No.:	LB87217
Lab Sample ID:	I2910-05	Matrix:	Solid
Level (low/med):	low	% Solid:	86

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.06	0.014	0.55	mg/kg	05/02/2017	05/03/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87217	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E21	SDG No.:	LB87217
Lab Sample ID:	I2910-06	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	0.059	0.013	0.53	mg/kg	05/02/2017	05/03/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87217	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E22	SDG No.:	LB87217
Lab Sample ID:	I2910-07	Matrix:	Solid
Level (low/med):	low	% Solid:	87.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.058	0.013	0.53	mg/kg	05/02/2017	05/03/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87217	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E23	SDG No.:	LB87217
Lab Sample ID:	I2910-08	Matrix:	Solid
Level (low/med):	low	% Solid:	83.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.062	0.014	0.56	mg/kg	05/02/2017	05/03/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87217	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E24	SDG No.:	LB87217
Lab Sample ID:	I2910-09	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	U	1	0.06	0.014	0.55	mg/kg	05/02/2017	05/03/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87217	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E25	SDG No.:	LB87217
Lab Sample ID:	I2910-10	Matrix:	Solid
Level (low/med):	low	% Solid:	85.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.061	0.014	0.56	mg/kg	05/02/2017	05/03/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87217	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E26	SDG No.:	LB87217
Lab Sample ID:	I2910-11	Matrix:	Solid
Level (low/med):	low	% Solid:	88.3

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	0.53	mg/kg	05/02/2017	05/03/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87217	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E43	SDG No.:	LB87217
Lab Sample ID:	I2910-12	Matrix:	Solid
Level (low/med):	low	% Solid:	84.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.062	0.014	0.57	mg/kg	05/02/2017	05/03/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87217	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E44	SDG No.:	LB87217
Lab Sample ID:	I2910-13	Matrix:	Solid
Level (low/med):	low	% Solid:	85.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.061	0.014	0.56	mg/kg	05/02/2017	05/03/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87217	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E45	SDG No.:	LB87217
Lab Sample ID:	I2910-14	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	0.53	mg/kg	05/02/2017	05/03/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87217	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E46	SDG No.:	LB87217
Lab Sample ID:	I2910-15	Matrix:	Solid
Level (low/med):	low	% Solid:	87.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.061	0.014	0.55	mg/kg	05/02/2017	05/03/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87217	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E47	SDG No.:	LB87217
Lab Sample ID:	I2910-16	Matrix:	Solid
Level (low/med):	low	% Solid:	81.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.064	0.014	0.58	mg/kg	05/02/2017	05/03/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87217	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E48	SDG No.:	LB87217
Lab Sample ID:	I2910-17	Matrix:	Solid
Level (low/med):	low	% Solid:	87.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.059	0.013	0.53	mg/kg	05/02/2017	05/03/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87217	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E50	SDG No.:	LB87217
Lab Sample ID:	I2910-18	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	05/02/2017	05/03/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87217	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E51	SDG No.:	LB87217
Lab Sample ID:	I2910-19	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	U	1	0.056	0.013	0.51	mg/kg	05/02/2017	05/03/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87217	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E52	SDG No.:	LB87217
Lab Sample ID:	I2910-20	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	U	1	0.055	0.013	0.5	mg/kg	05/02/2017	05/03/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87217	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E53	SDG No.:	LB87217
Lab Sample ID:	I2910-21	Matrix:	Solid
Level (low/med):	low	% Solid:	89

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	05/02/2017	05/03/2017	ISM02.4_CN



Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87217	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E53	SDG No.:	LB87217
Lab Sample ID:	I2910-21	Matrix:	Solid
Level (low/med):	low	% Solid:	89

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: LB87217

SDG No.: LB87217

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB98636BL		SOLID		Batch Number:		PB98636		Prep Date:	05/02/2017	
	Cyanide	0.001	<0.5	U	0.013	0.5	CN	05/03/2017	12:27	LB87217



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB87217 level: low sdg no.: LB87217
contract: lab code: CHEM case no.: LB87217 sas no.: LB87217
matrix: Solid sample id: I2910-02 client id: MF4E19S
Percent Solids for Sample: 86 Spiked ID: I2910-04 Percent Solids for Spike Sample: 86

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	4.3		0.56	U	5.5	78		CN

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB87217 **Level:** LOW **SDG No.:** LB87217
Contract: **Lab Code:** CHEM **Case No.:** LB87217 **SAS No.:** LB87217
Matrix: Solid **Sample ID:** I2910-02 **Client ID:** MF4E19D
Percent Solids for Sample: 86 **Duplicate ID** I2910-03 **Percent Solids for Spike Sample:** 86

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.56	U		0	U		CN



Metals
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SAMPLE PREPARATION SUMMARY

Client: LB87217 **SDG No.:** LB87217
Contract: **Lab Code:** CHEM **Method:**
Case No.: LB87217 **SAS No.:** LB87217

					Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date			
Batch Number: PB98636							
PB98636BL	PBS006	MB	SOLID	05/03/2017	1.00	50.0	100.00
I2910-02	MF4E19	SAM	SOLID	05/03/2017	1.04	50.0	86.00
I2910-03	MF4E19D	DUP	SOLID	05/03/2017	1.04	50.0	86.00
I2910-04	MF4E19S	MS	SOLID	05/03/2017	1.05	50.0	86.00
I2910-06	MF4E21	SAM	SOLID	05/03/2017	1.07	50.0	87.60
I2910-07	MF4E22	SAM	SOLID	05/03/2017	1.08	50.0	87.80
I2910-08	MF4E23	SAM	SOLID	05/03/2017	1.06	50.0	83.60
I2910-09	MF4E24	SAM	SOLID	05/03/2017	1.07	50.0	85.20
I2910-10	MF4E25	SAM	SOLID	05/03/2017	1.05	50.0	85.70
I2910-11	MF4E26	SAM	SOLID	05/03/2017	1.06	50.0	88.30
I2910-12	MF4E43	SAM	SOLID	05/03/2017	1.04	50.0	84.70
I2910-13	MF4E44	SAM	SOLID	05/03/2017	1.05	50.0	85.70
I2910-14	MF4E45	SAM	SOLID	05/03/2017	1.06	50.0	89.20
I2910-15	MF4E46	SAM	SOLID	05/03/2017	1.04	50.0	87.10
I2910-16	MF4E47	SAM	SOLID	05/03/2017	1.06	50.0	81.50
I2910-17	MF4E48	SAM	SOLID	05/03/2017	1.07	50.0	87.80
I2910-18	MF4E50	SAM	SOLID	05/03/2017	1.05	50.0	88.20
I2910-19	MF4E51	SAM	SOLID	05/03/2017	1.06	50.0	92.80
I2910-20	MF4E52	SAM	SOLID	05/03/2017	1.08	50.0	92.00
I2910-21	MF4E53	SAM	SOLID	05/03/2017	1.06	50.0	89.00
I2910-05	MF4E20	SAM	SOLID	05/03/2017	1.06	50.0	86.00

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB87217 Contract: _____
Lab Code: CHEM Case No.: LB87217 MA No.: _____ SDG No.: LB87217
Instrument ID: CN Start Date: 05/03/2017
Analytical Method: _____ Run Batch: LB87217.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0	0	5	4.1	-18	10	9.1	-9

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB87217 Contract: _____
Lab Code: CHEM Case No.: LB87217 MA No.: _____ SDG No.: LB87217
Instrument ID: CN Start Date: 05/03/2017
Analytical Method: _____ Run Batch: LB87217.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	101	1	250	253	1	500	498	0