

Daily Analysis Runlog For Sequence/QC Batch ID # LB87187

Review By		Review On				
SubDirectory		LB87187		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP54565,WP54564,WP54563,WP54562,WP54561,WP54560				
ICV Standard		WP54566				
CCV Standard		WP54567				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54580,WP51626,WP53945,WP53908				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	05/02/17 08:51		OK
2	S5.0	S5.0	CAL2	05/02/17 08:51		OK
3	S10.0	S10.0	CAL3	05/02/17 08:51		OK
4	S100.0	S100.0	CAL4	05/02/17 08:51		OK
5	S250.0	S250.0	CAL5	05/02/17 08:51		OK
6	S500.0	S500.0	CAL6	05/02/17 08:51		OK
7	ICV	ICV	ICV	05/02/17 09:32		OK
8	ICB	ICB	ICB	05/02/17 09:32		OK
9	CCV001	CCV001	CCV	05/02/17 09:32		OK
10	CCB001	CCB001	CCB	05/02/17 09:32		OK
11	PB98626BL	PBS006	MB	05/02/17 09:32		OK
12	I2909-01	MF4E09	SAM	05/02/17 09:32		OK
13	I2909-02	MF4E09D	DUP	05/02/17 09:32		OK
14	I2909-03	MF4E09S	MS	05/02/17 09:32		OK
15	I2909-04	MF4E10	SAM	05/02/17 09:40		OK
16	I2909-05	MF4E11	SAM	05/02/17 09:40		OK
17	I2909-06	MF4E12	SAM	05/02/17 09:40		OK
18	I2909-07	MF4E13	SAM	05/02/17 09:40		OK
19	I2909-08	MF4E14	SAM	05/02/17 09:40		OK
20	I2909-09	MF4E15	SAM	05/02/17 09:40		OK
21	I2909-10	MF4E16	SAM	05/02/17 09:40		OK



Instrument ID : CN

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

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Chk Standard		WP54580,WP51626,WP53945,WP53908				
22	I2909-11	MF4E17	SAM	05/02/17 09:40		OK
23	I2909-12	MF4E18	SAM	05/02/17 09:40		OK
24	CCV002	CCV002	CCV	05/02/17 09:40		OK
25	CCB002	CCB002	CCB	05/02/17 09:40		OK



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87187	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E09	SDG No.:	LB87187
Lab Sample ID:	I2909-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.016	U	1	0.059	0.013	0.54	mg/kg	05/01/2017	05/02/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87187	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E10	SDG No.:	LB87187
Lab Sample ID:	I2909-04	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	0.062	J	1	0.061	0.014	0.55	mg/kg	05/01/2017	05/02/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87187	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E11	SDG No.:	LB87187
Lab Sample ID:	I2909-05	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	0.009	U	1	0.062	0.014	0.56	mg/kg	05/01/2017	05/02/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87187	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E12	SDG No.:	LB87187
Lab Sample ID:	I2909-06	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	0.063	0.014	0.57	mg/kg	05/01/2017	05/02/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87187	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E13	SDG No.:	LB87187
Lab Sample ID:	I2909-07	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	0.038	U	1	0.06	0.014	0.54	mg/kg	05/01/2017	05/02/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87187	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E14	SDG No.:	LB87187
Lab Sample ID:	I2909-08	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	0.059	0.013	0.54	mg/kg	05/01/2017	05/02/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87187	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E15	SDG No.:	LB87187
Lab Sample ID:	I2909-09	Matrix:	Solid
Level (low/med):	low	% Solid:	90.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.016	U	1	0.058	0.013	0.53	mg/kg	05/01/2017	05/02/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87187	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E16	SDG No.:	LB87187
Lab Sample ID:	I2909-10	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	0.016	U	1	0.06	0.014	0.54	mg/kg	05/01/2017	05/02/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87187	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E17	SDG No.:	LB87187
Lab Sample ID:	I2909-11	Matrix:	Solid
Level (low/med):	low	% Solid:	84.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.005	U	1	0.061	0.014	0.55	mg/kg	05/01/2017	05/02/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87187	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E18	SDG No.:	LB87187
Lab Sample ID:	I2909-12	Matrix:	Solid
Level (low/med):	low	% Solid:	86.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.021	U	1	0.059	0.013	0.54	mg/kg	05/01/2017	05/02/2017	ISM02.4_CN



Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87187	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E18	SDG No.:	LB87187
Lab Sample ID:	I2909-12	Matrix:	Solid
Level (low/med):	low	% Solid:	86.1

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



Hit Summary Sheet
SW-846

SDG No.:

LB87187

Order ID:

LB87187

Client:

LB87187

Project ID:

LB87187

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	MF4E10								
I2909-04	MF4E10	Solid	Cyanide	0.062	J	0.061	0.275	0.55	mg/kg

Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: <u>LB87187</u>	SDG No.: <u>LB87187</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB87187</u>	SAS No.: <u>LB87187</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB98626							
PB98626BL	PBS006	MB	SOLID	05/02/2017	1.00	50.0	100.00
I2909-01	MF4E09	SAM	SOLID	05/02/2017	1.04	50.0	89.80
I2909-02	MF4E09D	DUP	SOLID	05/02/2017	1.04	50.0	89.80
I2909-03	MF4E09S	MS	SOLID	05/02/2017	1.05	50.0	89.80
I2909-04	MF4E10	SAM	SOLID	05/02/2017	1.06	50.0	85.60
I2909-05	MF4E11	SAM	SOLID	05/02/2017	1.04	50.0	85.60
I2909-06	MF4E12	SAM	SOLID	05/02/2017	1.05	50.0	83.60
I2909-07	MF4E13	SAM	SOLID	05/02/2017	1.06	50.0	86.70
I2909-08	MF4E14	SAM	SOLID	05/02/2017	1.04	50.0	89.30
I2909-09	MF4E15	SAM	SOLID	05/02/2017	1.05	50.0	90.70
I2909-10	MF4E16	SAM	SOLID	05/02/2017	1.06	50.0	87.00
I2909-11	MF4E17	SAM	SOLID	05/02/2017	1.07	50.0	84.40
I2909-12	MF4E18	SAM	SOLID	05/02/2017	1.08	50.0	86.10

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB87187 Contract: _____
Lab Code: CHEM Case No.: LB87187 MA No.: _____ SDG No.: LB87187
Instrument ID: CN Start Date: 05/02/2017
Analytical Method: _____ Run Batch: LB87187.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0	0	5	4.2	-16	10	9.6	-4

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB87187 Contract: _____
Lab Code: CHEM Case No.: LB87187 MA No.: _____ SDG No.: LB87187
Instrument ID: CN Start Date: 05/02/2017
Analytical Method: _____ Run Batch: LB87187.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	101	1	250	252	1	500	499	0

Metals**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB87187**SDG No.:** LB87187**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB87187 **SAS No.:** LB87187**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	96.7	99	98	0	85 - 115	CN	05/02/2017	09:32	LB87187



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87187

SDG No.: LB87187

Contract: _____ Lab Code: CHEM

Case No.: LB87187

SAS No.: LB87187

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	242	250	97	0	85 - 115	CN	05/02/2017	09:32	LB87187
CCV002	Cyanide	243	250	97	0	85 - 115	CN	05/02/2017	09:40	LB87187



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87187 **SDG No.:** LB87187
Contract: **Lab Code:** CHEM **Case No.:** LB87187 **SAS No.:** LB87187

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB	Cyanide	0.37	+/-10.0	U	5.0	10.0	CN	05/02/2017	09:32	LB87187



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87187

SDG No.: LB87187

Contract: _____

Lab Code: CHEM

Case No.: LB87187

SAS No.: LB87187

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	0.28	+/-10.0	U	5.0	10.0	CN	05/02/2017	09:32	LB87187
CCB002	Cyanide	0.45	+/-10.0	U	5.0	10.0	CN	05/02/2017	09:40	LB87187



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87187

SDG No.: LB87187

Contract: Lab Code: CHEM

Case No.: LB87187

SAS No.: LB87187

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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SDG No.: LB87187

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB98626BL		SOLID		Batch Number:		PB98626		Prep Date:	05/01/2017	
	Cyanide	0.055	<0.5	U	0.013	0.5	CN	05/02/2017	09:32	LB87187



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB87187 level: low sdg no.: LB87187
contract: lab code: CHEM case no.: LB87187 sas no.: LB87187
matrix: Solid sample id: I2909-01 client id: MF4E09S
Percent Solids for Sample: 89.8 Spiked ID: I2909-03 Percent Solids for Spike Sample: 89.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	4.3		0.54	U	5.3	81		CN

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB87187 **Level:** LOW **SDG No.:** LB87187
Contract: **Lab Code:** CHEM **Case No.:** LB87187 **SAS No.:** LB87187
Matrix: Solid **Sample ID:** I2909-01 **Client ID:** MF4E09D
Percent Solids for Sample: 89.8 **Duplicate ID** I2909-02 **Percent Solids for Spike Sample:** 89.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.54	U	0.007	U			CN