

Daily Analysis Runlog For Sequence/QC Batch ID # LB85520

Review By		Review On				
SubDirectory		LB85520		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP52357,WP52356,WP52355,WP52354,WP52353,WP52352				
ICV Standard		WP52358				
CCV Standard		WP52359				
ICSA Standard						
CRI Standard						
LCS Standard						
Chk Standard		WP52401,WP51626,WP50159,WP51615				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	01/25/17 09:50		OK
2	S5.0	S5.0	CAL2	01/25/17 09:51		OK
3	S10.0	S10.0	CAL3	01/25/17 09:51		OK
4	S100.0	S100.0	CAL4	01/25/17 09:51		OK
5	S250.0	S250.0	CAL5	01/25/17 09:51		OK
6	S500.0	S500.0	CAL6	01/25/17 09:51		OK
7	ICV	ICV	ICV	01/25/17 12:10		OK
8	ICB	ICB	ICB	01/25/17 12:10		OK
9	CCV001	CCV001	CCV	01/25/17 12:10		OK
10	CCB001	CCB001	CCB	01/25/17 12:10		OK
11	PB96308BL	PBS006	MB	01/25/17 12:10		OK
12	I1390-01	MBDN10	SAM	01/25/17 12:10		OK
13	I1390-02	MBDN10D	DUP	01/25/17 12:10		OK
14	I1390-03	MBDN10S	MS	01/25/17 12:10	Recovery fail	OK
15	I1390-04	MBDN25	SAM	01/25/17 12:10		OK
16	I1390-05	MBDN28	SAM	01/25/17 12:10		OK
17	I1390-06	MBDN31	SAM	01/25/17 12:10		OK
18	I1390-07	MBDN32	SAM	01/25/17 12:15		OK
19	I1390-08	MBDN33	SAM	01/25/17 12:15		OK
20	I1390-09	MBDN34	SAM	01/25/17 12:15		OK
21	I1390-10	MBDN35	SAM	01/25/17 12:15		OK

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

Daily Analysis Runlog For Sequence/QC Batch ID # LB85520

Review By		Review On				
SubDirectory		LB85520		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP52357,WP52356,WP52355,WP52354,WP52353,WP52352				
ICV Standard						
CCV Standard						
ICSA Standard						
CRI Standard						
LCS Standard		WP52401,WP51626,WP50159,WP51615				
Chk Standard						
22	CCV002	CCV002	CCV	01/25/17 12:15		OK
23	CCB002	CCB002	CCB	01/25/17 12:15		OK
24	I1390-01A	MBDN10A	PS	01/25/17 12:39		OK
25	CCV003	CCV003	CCV	01/25/17 12:39		OK
26	CCB003	CCB003	CCB	01/25/17 12:39		OK



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

Report of Analysis

Client:		Date Collected:	1/19/2017 12:00:00 AM
Project:	LB85520	Date Received:	1/21/2017 12:00:00 AM
Client Sample ID:	MBDN10	SDG No.:	LB85520
Lab Sample ID:	I1390-01	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	0.021	U	1	0.059	0.013	0.54	mg/kg	01/24/2017	01/25/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/19/2017 12:00:00 AM
Project:	LB85520	Date Received:	1/21/2017 12:00:00 AM
Client Sample ID:	MBDN25	SDG No.:	LB85520
Lab Sample ID:	I1390-04	Matrix:	Solid
Level (low/med):	low	% Solid:	96.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.033	U	1	0.054	0.012	0.49	mg/kg	01/24/2017	01/25/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/18/2017 12:00:00 AM
Project:	LB85520	Date Received:	1/21/2017 12:00:00 AM
Client Sample ID:	MBDN28	SDG No.:	LB85520
Lab Sample ID:	I1390-05	Matrix:	Solid
Level (low/med):	low	% Solid:	96.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.038	U	1	0.054	0.012	0.49	mg/kg	01/24/2017	01/25/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/17/2017 12:00:00 AM
Project:	LB85520	Date Received:	1/21/2017 12:00:00 AM
Client Sample ID:	MBDN31	SDG No.:	LB85520
Lab Sample ID:	I1390-06	Matrix:	Solid
Level (low/med):	low	% Solid:	69.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.079	0.018	0.71	mg/kg	01/24/2017	01/25/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/17/2017 12:00:00 AM
Project:	LB85520	Date Received:	1/21/2017 12:00:00 AM
Client Sample ID:	MBDN32	SDG No.:	LB85520
Lab Sample ID:	I1390-07	Matrix:	Solid
Level (low/med):	low	% Solid:	80.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.054	U	1	0.067	0.015	0.61	mg/kg	01/24/2017	01/25/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/17/2017 12:00:00 AM
Project:	LB85520	Date Received:	1/21/2017 12:00:00 AM
Client Sample ID:	MBDN33	SDG No.:	LB85520
Lab Sample ID:	I1390-08	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	0.28	J	1	0.065	0.015	0.59	mg/kg	01/24/2017	01/25/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/19/2017 12:00:00 AM
Project:	LB85520	Date Received:	1/21/2017 12:00:00 AM
Client Sample ID:	MBDN34	SDG No.:	LB85520
Lab Sample ID:	I1390-09	Matrix:	Solid
Level (low/med):	low	% Solid:	82.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.14	J	1	0.066	0.015	0.6	mg/kg	01/24/2017	01/25/2017	ISM02.2_CN



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

Report of Analysis

Client:		Date Collected:	1/20/2017 12:00:00 AM
Project:	LB85520	Date Received:	1/21/2017 12:00:00 AM
Client Sample ID:	MBDN35	SDG No.:	LB85520
Lab Sample ID:	I1390-10	Matrix:	Solid
Level (low/med):	low	% Solid:	75.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.033	U	1	0.072	0.016	0.66	mg/kg	01/24/2017	01/25/2017	ISM02.2_CN



Report of Analysis

Client:		Date Collected:	1/20/2017 12:00:00 AM
Project:	LB85520	Date Received:	1/21/2017 12:00:00 AM
Client Sample ID:	MBDN35	SDG No.:	LB85520
Lab Sample ID:	I1390-10	Matrix:	Solid
Level (low/med):	low	% Solid:	75.2

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



Hit Summary Sheet
SW-846

SDG No.:

LB85520

Order ID:

LB85520

Client:

LB85520

Project ID:

LB85520

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : I1390-06	MBDN31 MBDN31	Solid	Cyanide	0.120	J	0.079	0.355	0.71	mg/kg
Client ID : I1390-08	MBDN33 MBDN33	Solid	Cyanide	0.280	J	0.065	0.295	0.59	mg/kg
Client ID : I1390-09	MBDN34 MBDN34	Solid	Cyanide	0.140	J	0.066	0.3	0.6	mg/kg



Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: LB85520 SDG No.: LB85520
Contract: Lab Code: CHEM Method:
Case No.: LB85520 SAS No.: LB85520

					Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date			
Batch Number: PB96308							
PB96308BL	PBS006	MB	SOLID	01/25/2017	1.00	50.0	100.00
I1390-01	MBDN10	SAM	SOLID	01/25/2017	1.02	50.0	91.50
I1390-02	MBDN10D	DUP	SOLID	01/25/2017	1.03	50.0	91.50
I1390-03	MBDN10S	MS	SOLID	01/25/2017	1.04	50.0	91.50
I1390-04	MBDN25	SAM	SOLID	01/25/2017	1.05	50.0	96.60
I1390-05	MBDN28	SAM	SOLID	01/25/2017	1.06	50.0	96.70
I1390-06	MBDN31	SAM	SOLID	01/25/2017	1.01	50.0	69.30
I1390-07	MBDN32	SAM	SOLID	01/25/2017	1.03	50.0	80.20
I1390-08	MBDN33	SAM	SOLID	01/25/2017	1.04	50.0	81.50
I1390-09	MBDN34	SAM	SOLID	01/25/2017	1.02	50.0	82.30
I1390-10	MBDN35	SAM	SOLID	01/25/2017	1.01	50.0	75.20

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB85520 Contract: _____
Lab Code: CHEM Case No.: LB85520 MA No.: _____ SDG No.: LB85520
Instrument ID: CN Start Date: 01/25/2017
Analytical Method: _____ Run Batch: LB85520.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0.34	0	5	5.3	6	10	9.8	-2

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB85520 Contract: _____
Lab Code: CHEM Case No.: LB85520 MA No.: _____ SDG No.: LB85520
Instrument ID: CN Start Date: 01/25/2017
Analytical Method: _____ Run Batch: LB85520.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	99.3	-1	250	250	0	500	500	0

Metals**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB85520**SDG No.:** LB85520**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB85520**SAS No.:** LB85520**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	93.6	99	95	0	85 - 115	CN	01/25/2017	12:10	LB85520



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB85520

SDG No.: LB85520

Contract: _____ Lab Code: CHEM

Case No.: LB85520

SAS No.: LB85520

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	236	250	94	0	85 - 115	CN	01/25/2017	12:10	LB85520
CCV002	Cyanide	250	250	100	0	85 - 115	CN	01/25/2017	12:15	LB85520
CCV003	Cyanide	251	250	100	0	85 - 115	CN	01/25/2017	12:39	LB85520



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85520 **SDG No.:** LB85520
Contract: **Lab Code:** CHEM **Case No.:** LB85520 **SAS No.:** LB85520

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB	Cyanide	0.8	+/-10.0	U	5.0	10.0	CN	01/25/2017	12:10	LB85520



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85520

SDG No.: LB85520

Contract:

Lab Code: CHEM

Case No.: LB85520

SAS No.: LB85520

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	1.1	+/-10.0	U	5.0	10.0	CN	01/25/2017	12:10	LB85520
CCB002	Cyanide	1.1	+/-10.0	U	5.0	10.0	CN	01/25/2017	12:15	LB85520
CCB003	Cyanide	0.63	+/-10.0	U	5.0	10.0	CN	01/25/2017	12:39	LB85520



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85520

SDG No.: LB85520

Contract: Lab Code: CHEM

Case No.: LB85520

SAS No.: LB85520

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



SDG No.: LB85520

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB96308BL		SOLID		Batch Number:		PB96308		Prep Date:	01/24/2017	
	Cyanide	0.033	<0.5	U	0.013	0.5	CN	01/25/2017	12:10	LB85520



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB85520 level: low sdg no.: LB85520
contract: lab code: CHEM case no.: LB85520 sas no.: LB85520
matrix: Solid sample id: I1390-01 client id: MBDN10S
Percent Solids for Sample: 91.5 Spiked ID: I1390-03 Percent Solids for Spike Sample: 91.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	2.8		0.54	U	5.3	53	*	CN



Sample ID: I1390-01 **Spiked ID:** I1390-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	1.2		0.54	U	1.1	109		CN

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB85520 **Level:** LOW **SDG No.:** LB85520
Contract: **Lab Code:** CHEM **Case No.:** LB85520 **SAS No.:** LB85520
Matrix: Solid **Sample ID:** I1390-01 **Client ID:** MBDN10D
Percent Solids for Sample: 91.5 **Duplicate ID** I1390-02 **Percent Solids for Spike Sample:** 91.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.54	U	0.035	U			CN