

Daily Analysis Runlog For Sequence/QC Batch ID # LB91084

Review By		Review On				
SubDirectory		LB91084		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59046,WP59045,WP59044,WP59043,WP59042,WP59041				
ICV Standard		WP59047				
CCV Standard		WP59048				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55836,WP54147,WP59058				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	10/25/17 14:12		OK
2	5.0PPBCN	5.0PPBCN	CAL2	10/25/17 14:12		OK
3	10PPBCN	10PPBCN	CAL3	10/25/17 14:12		OK
4	100PPBCN	100PPBCN	CAL4	10/25/17 14:12		OK
5	250PPBCN	250PPBCN	CAL5	10/25/17 14:12		OK
6	500PPBCN	500PPBCN	CAL6	10/25/17 14:12		OK
7	ICV	ICV	ICV	10/25/17 14:51		OK
8	ICB	ICB	ICB	10/25/17 14:51		OK
9	CCV001	CCV001	CCV	10/25/17 14:51		OK
10	CCB001	CCB001	CCB	10/25/17 14:51		OK
11	PB103615BL	PBW005	MB	10/25/17 14:51		OK
12	I5941-06	MBDY24	SAM	10/25/17 14:51		OK
13	I5941-01	MBDXP8	SAM	10/25/17 14:58		OK
14	I5941-02	MBDXQ4	SAM	10/25/17 14:58		OK
15	I5941-03	MBDXN3	SAM	10/25/17 14:58		OK
16	I5941-04	MBDXN9	SAM	10/25/17 14:58		OK
17	I5941-05	MBDXP2	SAM	10/25/17 14:58		OK
18	I5941-07	MBDXP2D	DUP	10/25/17 14:58		OK
19	I5941-08	MBDXP2S	MS	10/25/17 14:58		OK
20	CCV002	CCV002	CCV	10/25/17 14:58		OK
21	CCB002	CCB002	CCB	10/25/17 14:58		OK



Instrument ID : CN

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

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SubDirectory		Test : Cyanide				
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ICV Standard		WP59047				
CCV Standard		WP59048				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55836,WP54147,WP59058				
22	PB103616BL	PBS006	MB	10/25/17 15:28		OK
23	CCV003	CCV003	CCV	10/25/17 15:28		OK
24	CCB003	CCB003	CCB	10/25/17 15:28		OK



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Report of Analysis

Client:		Date Collected:	10/16/2017 12:00:00 AM
Project:	LB91084	Date Received:	10/17/2017 12:00:00 AM
Client Sample ID:	MBDXP8	SDG No.:	LB91084
Lab Sample ID:	I5941-01	Matrix:	Solid
Level (low/med):	low	% Solid:	60.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.022	U	1	0.088	0.02	0.8	mg/kg	10/24/2017	10/25/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/16/2017 12:00:00 AM
Project:	LB91084	Date Received:	10/17/2017 12:00:00 AM
Client Sample ID:	MBDXQ4	SDG No.:	LB91084
Lab Sample ID:	I5941-02	Matrix:	Solid
Level (low/med):	low	% Solid:	79.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.03	U	1	0.066	0.015	0.6	mg/kg	10/24/2017	10/25/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/19/2017 12:00:00 AM
Project:	LB91084	Date Received:	10/20/2017 12:00:00 AM
Client Sample ID:	MBDXN3	SDG No.:	LB91084
Lab Sample ID:	I5941-03	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	U	1	0.066	0.015	0.6	mg/kg	10/24/2017	10/25/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/19/2017 12:00:00 AM
Project:	LB91084	Date Received:	10/20/2017 12:00:00 AM
Client Sample ID:	MBDXN9	SDG No.:	LB91084
Lab Sample ID:	I5941-04	Matrix:	Solid
Level (low/med):	low	% Solid:	82.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.02	U	1	0.065	0.015	0.59	mg/kg	10/24/2017	10/25/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/19/2017 12:00:00 AM
Project:	LB91084	Date Received:	10/20/2017 12:00:00 AM
Client Sample ID:	MBDXP2	SDG No.:	LB91084
Lab Sample ID:	I5941-05	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	U	1	0.065	0.015	0.59	mg/kg	10/24/2017	10/25/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	10/19/2017 12:00:00 AM
Project:	LB91084	Date Received:	10/20/2017 12:00:00 AM
Client Sample ID:	MBDY24	SDG No.:	LB91084
Lab Sample ID:	I5941-06	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	10/24/2017	10/25/2017	ISM02.4_CN



Report of Analysis

Client:		Date Collected:	10/19/2017 12:00:00 AM
Project:	LB91084	Date Received:	10/20/2017 12:00:00 AM
Client Sample ID:	MBDY24	SDG No.:	LB91084
Lab Sample ID:	I5941-06	Matrix:	WATER
Level (low/med):	low	% Solid:	0

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
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SAMPLE PREPARATION SUMMARY

Client: LB91084 SDG No.: LB91084
Contract: Lab Code: CHEM Method:
Case No.: LB91084 SAS No.: LB91084

					Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date			
Batch Number: PB103615							
PB103615BL	PBW005	MB	WATER	10/25/2017	50.0	50.0	
I5941-06	MBDY24	SAM	WATER	10/25/2017	50.0	50.0	



Metals
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SAMPLE PREPARATION SUMMARY

Client: LB91084 **SDG No.:** LB91084
Contract: **Lab Code:** CHEM **Method:**
Case No.: LB91084 **SAS No.:** LB91084

					Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date			
Batch Number: PB103616							
I5941-01	MBDXP8	SAM	SOLID	10/25/2017	1.04	50.0	60.40
I5941-02	MBDXQ4	SAM	SOLID	10/25/2017	1.05	50.0	79.20
I5941-03	MBDXN3	SAM	SOLID	10/25/2017	1.04	50.0	80.20
I5941-04	MBDXN9	SAM	SOLID	10/25/2017	1.03	50.0	82.60
I5941-05	MBDXP2	SAM	SOLID	10/25/2017	1.03	50.0	82.30
I5941-07	MBDXP2D	DUP	SOLID	10/25/2017	1.04	50.0	82.30
I5941-08	MBDXP2S	MS	SOLID	10/25/2017	1.02	50.0	82.30
PB103616BL	PBS006	MB	SOLID	10/25/2017	1.02	50.0	100.00



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB91084

SDG No.: LB91084

Contract: _____ Lab Code: CHEM

Case No.: LB91084 SAS No.: LB91084

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	98.5	99	99	0	85 - 115	CN	10/25/2017	14:51	LB91084



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB91084

SDG No.: LB91084

Contract: _____ **Lab Code:** CHEM

Case No.: LB91084

SAS No.: LB91084

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	254	250	102	0	85 - 115	CN	10/25/2017	14:51	LB91084
CCV002	Cyanide	256	250	102	0	85 - 115	CN	10/25/2017	14:58	LB91084
CCV003	Cyanide	270	250	108	0	85 - 115	CN	10/25/2017	15:28	LB91084



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91084 **SDG No.:** LB91084
Contract: **Lab Code:** CHEM **Case No.:** LB91084 **SAS No.:** LB91084

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	10/25/2017	14:51	LB91084



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91084

SDG No.: LB91084

Contract:

Lab Code: CHEM

Case No.: LB91084

SAS No.: LB91084

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	10/25/2017	14:51	LB91084
CCB002	Cyanide	0.65	+/-10.0	U	5.0	10.0	CN	10/25/2017	14:58	LB91084
CCB003	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	10/25/2017	15:28	LB91084



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91084

SDG No.: LB91084

Contract: Lab Code: CHEM

Case No.: LB91084

SAS No.: LB91084

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: LB91084

SDG No.: LB91084

Instrument: CN

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB103615BL	WATER		<10	Batch Number:	PB103615		CN	Prep Date:	10/24/2017	
	Cyanide	1.5		U	5.0	10		10/25/2017	14:51	LB91084
Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB103616BL	SOLID		<0.49	Batch Number:	PB103616		CN	Prep Date:	10/24/2017	
	Cyanide	0.054		U	0.012	0.49		10/25/2017	15:28	LB91084



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB91084 level: low sdg no.: LB91084
contract: lab code: CHEM case no.: LB91084 sas no.: LB91084
matrix: Solid sample id: I5941-05 client id: MBDXP2S
Percent Solids for Sample: 82.3 Spiked ID: I5941-08 Percent Solids for Spike Sample: 82.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	4.5		0.59	U	6	75		CN

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB91084 **Level:** LOW **SDG No.:** LB91084
Contract: **Lab Code:** CHEM **Case No.:** LB91084 **SAS No.:** LB91084
Matrix: Solid **Sample ID:** I5941-05 **Client ID:** MBDXP2D
Percent Solids for Sample: 82.3 **Duplicate ID** I5941-07 **Percent Solids for Spike Sample:** 82.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.59	U		0	U		CN



Metals
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Client: LB91084

SDG No.: LB91084

Contract:

Lab Code: CHEM

Case No.: LB91084

SAS No.: LB91084

Instrument ID: P4

Preparation Method:

Analyte	Wave- length (nm)	MDL	LOD	PQL	Date:
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LIQUID

Method: Cyanide	578.00				
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SOLIDS

Method: Cyanide	578.00				
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Start Date: _____ **End Date:** _____

[illegible]