

Daily Analysis Runlog For Sequence/QC Batch ID # LB92743

Review By

Review On

SubDirectory

LB92743

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP61129,WP61128,WP61127,WP61126,WP61125,WP61124				
ICV Standard		WP61130				
CCV Standard		WP61131				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP61110,WP59958,WP58653				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	01/19/18 15:23		OK
2	S5.0	S5.0	CAL2	01/19/18 15:23		OK
3	S10.0	S10.0	CAL3	01/19/18 15:23		OK
4	S100.0	S100.0	CAL4	01/19/18 15:23		OK
5	S250.0	S250.0	CAL5	01/19/18 15:23		OK
6	S500.0	S500.0	CAL6	01/19/18 15:23		OK
7	ICV	ICV	ICV	01/19/18 15:51		OK
8	ICB	ICB	ICB	01/19/18 15:51		OK
9	CCV001	CCV001	CCV	01/19/18 15:51		OK
10	CCB001	CCB001	CCB	01/19/18 15:51		OK
11	PB105804BL	PBS006	MB	01/19/18 15:51		OK
12	J1217-01	MB0AE4	SAM	01/19/18 15:51		OK
13	J1217-02	MB0AE5	SAM	01/19/18 15:51	High	Dilution
14	J1217-03	MB0AE6	SAM	01/19/18 15:57	High	Dilution
15	J1217-04	MB0AE7	SAM	01/19/18 15:57		OK
16	J1217-05	MB0AE8	SAM	01/19/18 15:57	High	Dilution
17	J1217-06	MB0AE8D	DUP	01/19/18 15:57	High	Dilution
18	J1217-07	MB0AE8S	MS	01/19/18 15:57	High	Dilution
19	CCV002	CCV002	CCV	01/19/18 15:57		OK
20	CCB002	CCB002	CCB	01/19/18 15:57		OK
21	J1217-02DL	MB0AE5	SAM	01/19/18 16:31	10X dilution	Confirms

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SubDirectory		LB92743		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP61129,WP61128,WP61127,WP61126,WP61125,WP61124				
ICV Standard		WP61130				
CCV Standard		WP61131				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP61110,WP59958,WP58653				
22	J1217-03DL	MB0AE6	SAM	01/19/18 16:31	2X dilution	Confirms
23	J1217-05DL	MB0AE8	SAM	01/19/18 16:31	5X dilution	Confirms
24	J1217-06DL	MB0AE8D	DUP	01/19/18 16:31	5X dilution	Confirms
25	J1217-07DL	MB0AE8S	MS	01/19/18 16:31	5X dilution	Confirms
26	CCV003	CCV003	CCV	01/19/18 16:31		OK
27	CCB003	CCB003	CCB	01/19/18 16:31		OK



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Report of Analysis

Client:		Date Collected:	1/17/2018 12:00:00 AM
Project:	LB92743	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	MB0AE4	SDG No.:	LB92743
Lab Sample ID:	J1217-01	Matrix:	Solid
Level (low/med):	low	% Solid:	54.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	28.8		1	0.2	0.022	0.89	mg/kg	01/19/2018	01/19/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB92743	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	MB0AE5	SDG No.:	LB92743
Lab Sample ID:	J1217-02	Matrix:	Solid
Level (low/med):	low	% Solid:	52.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	228	OR	1	0.21	0.024	0.94	mg/kg	01/19/2018	01/19/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB92743	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	MB0AE5	SDG No.:	LB92743
Lab Sample ID:	J1217-02DL	Matrix:	Solid
Level (low/med):	low	% Solid:	52.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	237	D	10	2.1	0.235	9.4	mg/kg	01/19/2018	01/19/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB92743	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	MB0AE6	SDG No.:	LB92743
Lab Sample ID:	J1217-03	Matrix:	Solid
Level (low/med):	low	% Solid:	53.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	50.3	OR	1	0.2	0.023	0.9	mg/kg	01/19/2018	01/19/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB92743	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	MB0AE6	SDG No.:	LB92743
Lab Sample ID:	J1217-03DL	Matrix:	Solid
Level (low/med):	low	% Solid:	53.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	50.5	D	2	0.4	0.045	1.8	mg/kg	01/19/2018	01/19/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB92743	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	MB0AE7	SDG No.:	LB92743
Lab Sample ID:	J1217-04	Matrix:	Solid
Level (low/med):	low	% Solid:	71.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.73		1	0.15	0.017	0.66	mg/kg	01/19/2018	01/19/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	1/17/2018 12:00:00 AM
Project:	LB92743	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	MB0AE8	SDG No.:	LB92743
Lab Sample ID:	J1217-05	Matrix:	Solid
Level (low/med):	low	% Solid:	55.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	37.3		1	0.19	0.022	0.88	mg/kg	01/19/2018	01/19/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	1/17/2018 12:00:00 AM
Project:	LB92743	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	MB0AE8	SDG No.:	LB92743
Lab Sample ID:	J1217-05DL	Matrix:	Solid
Level (low/med):	low	% Solid:	55.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	36.9	D	5	0.97	0.11	4.4	mg/kg	01/19/2018	01/19/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	1/17/2018 12:00:00 AM
Project:	LB92743	Date Received:	1/19/2018 12:00:00 AM
Client Sample ID:	MB0AE8	SDG No.:	LB92743
Lab Sample ID:	J1217-05DL	Matrix:	Solid
Level (low/med):	low	% Solid:	55.7

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

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92743

SDG No.: LB92743

Contract: _____ **Lab Code:** CHEM

Case No.: LB92743

SAS No.: LB92743

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	95.2	99	96	0	85 - 115	CN	01/19/2018	15:51	LB92743



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92743

SDG No.: LB92743

Contract: _____ Lab Code: CHEM

Case No.: LB92743

SAS No.: LB92743

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	240	250	96	0	85 - 115	CN	01/19/2018	15:51	LB92743
CCV002	Cyanide	240	250	96	0	85 - 115	CN	01/19/2018	15:57	LB92743
CCV003	Cyanide	248	250	99	0	85 - 115	CN	01/19/2018	16:31	LB92743



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92743 **SDG No.:** LB92743
Contract: **Lab Code:** CHEM **Case No.:** LB92743 **SAS No.:** LB92743

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB	Cyanide	2.1	+/-10.0	U	5.0	10.0	CN	01/19/2018	15:51	LB92743



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92743

SDG No.: LB92743

Contract:

Lab Code: CHEM

Case No.: LB92743

SAS No.: LB92743

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	2.1	+/-10.0	U	5.0	10.0	CN	01/19/2018	15:51	LB92743
CCB002	Cyanide	2.1	+/-10.0	U	5.0	10.0	CN	01/19/2018	15:57	LB92743
CCB003	Cyanide	2.1	+/-10.0	U	5.0	10.0	CN	01/19/2018	16:31	LB92743



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92743

SDG No.: LB92743

Contract: Lab Code: CHEM

Case No.: LB92743

SAS No.: LB92743

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.: LB92743

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB105804BL		SOLID		Batch Number:		PB105804		Prep Date:	01/19/2018	
	Cyanide	0.11	<0.5	U	0.012	0.5	CN	01/19/2018	15:51	LB92743



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB92743 level: low sdg no.: LB92743
contract: lab code: CHEM case no.: LB92743 sas no.: LB92743
matrix: Solid sample id: J1217-05 client id: MB0AE8S
Percent Solids for Sample: 55.7 Spiked ID: J1217-07 Percent Solids for Spike Sample: 55.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	78.1	OR	37.3		8.8	464		CN



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB92743 level: low sdg no.: LB92743
contract: lab code: CHEM case no.: LB92743 sas no.: LB92743
matrix: Solid sample id: J1217-05DL client id: MB0AE8S
Percent Solids for Sample: 55.7 Spiked ID: J1217-07DL Percent Solids for Spike Sample: 55.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	78.6	D	36.9	D	8.8	474		CN

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB92743 **Level:** LOW **SDG No.:** LB92743
Contract: **Lab Code:** CHEM **Case No.:** LB92743 **SAS No.:** LB92743
Matrix: Solid **Sample ID:** J1217-05 **Client ID:** MB0AE8D
Percent Solids for Sample: 55.7 **Duplicate ID** J1217-06 **Percent Solids for Spike Sample:** 55.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	37.3		37.4		0		CN

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB92743 **Level:** LOW **SDG No.:** LB92743
Contract: _____ **Lab Code:** CHEM **Case No.:** LB92743 **SAS No.:** LB92743
Matrix: Solid **Sample ID:** J1217-05DL **Client ID:** MB0AE8D
Percent Solids for Sample: 55.7 **Duplicate ID** J1217-06DL **Percent Solids for Spike Sample:** 55.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	36.9	D	37.2	D	1		CN



Metals
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SAMPLE PREPARATION SUMMARY

Client: LB92743 **SDG No.:** LB92743
Contract: **Lab Code:** CHEM **Method:**
Case No.: LB92743 **SAS No.:** LB92743

					Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date			
Batch Number: PB105804							
PB105804BL	PBS006	MB	SOLID	01/19/2018	1.01	50.0	100.00
J1217-01	MB0AE4	SAM	SOLID	01/19/2018	1.03	50.0	54.80
J1217-02	MB0AE5	SAM	SOLID	01/19/2018	1.02	50.0	52.10
J1217-03	MB0AE6	SAM	SOLID	01/19/2018	1.04	50.0	53.20
J1217-04	MB0AE7	SAM	SOLID	01/19/2018	1.05	50.0	71.80
J1217-05	MB0AE8	SAM	SOLID	01/19/2018	1.02	50.0	55.70
J1217-06	MB0AE8D	DUP	SOLID	01/19/2018	1.01	50.0	55.70
J1217-07	MB0AE8S	MS	SOLID	01/19/2018	1.02	50.0	55.70
J1217-02DL	MB0AE5	SAM	SOLID	01/19/2018	1.02	50.0	52.10
J1217-03DL	MB0AE6	SAM	SOLID	01/19/2018	1.04	50.0	53.20
J1217-05DL	MB0AE8	SAM	SOLID	01/19/2018	1.02	50.0	55.70
J1217-06DL	MB0AE8D	DUP	SOLID	01/19/2018	1.01	50.0	55.70
J1217-07DL	MB0AE8S	MS	SOLID	01/19/2018	1.02	50.0	55.70

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB92743 Contract: _____
Lab Code: CHEM Case No.: LB92743 MA No.: _____ SDG No.: LB92743
Instrument ID: CN Start Date: 01/19/2018
Analytical Method: _____ Run Batch: LB92743.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0	0	5	4.9	-2	10	10.0	0

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB92743 Contract: _____
Lab Code: CHEM Case No.: LB92743 MA No.: _____ SDG No.: LB92743
Instrument ID: CN Start Date: 01/19/2018
Analytical Method: _____ Run Batch: LB92743.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	99.9	0	250	251	0	500	499	0