

Daily Analysis Runlog For Sequence/QC Batch ID # LB89880

Review By

SubDirectory

Review On

Test : Cyanide

LB89880

STD. NAME		STD REF.#				
ICAL Standard		WP57680,WP57679,WP57678,WP57677,WP57676,WP57675				
ICV Standard		WP57681				
CCV Standard		WP57682				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57697,WP55836,WP53945				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	09/05/17 16:22		OK
2	S5.0	S5.0	CAL2	09/05/17 16:22		OK
3	S10.0	S10.0	CAL3	09/05/17 16:22		OK
4	S100.0	S100.0	CAL4	09/05/17 16:22		OK
5	S250.0	S250.0	CAL5	09/05/17 16:22		OK
6	S500.0	S500.0	CAL6	09/05/17 16:22		OK
7	ICV	ICV	ICV	09/05/17 16:52		OK
8	ICB	ICB	ICB	09/05/17 16:52		OK
9	CCV001	CCV001	CCV	09/05/17 16:52		OK
10	CCB001	CCB001	CCB	09/05/17 16:52		OK
11	PB102064BL	PBS006	MB	09/05/17 16:52		OK
12	I5099-01	MBDZS5	SAM	09/05/17 16:52		OK
13	I5099-02	MBDZS5D	DUP	09/05/17 16:59		OK
14	I5099-03	MBDZS5S	MS	09/05/17 16:59		OK
15	I5099-04	MBDZS6	SAM	09/05/17 16:59		OK
16	I5099-05	MBDZS7	SAM	09/05/17 16:59		OK
17	I5099-06	MBDZT4	SAM	09/05/17 16:59		OK
18	I5099-07	MBDZT5	SAM	09/05/17 16:59		OK
19	I5099-08	MBDZT6	SAM	09/05/17 16:59		OK
20	CCV002	CCV002	CCV	09/05/17 16:59		OK
21	CCB002	CCB002	CCB	09/05/17 16:59		OK



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Report of Analysis

Client:		Date Collected:	8/31/2017 12:00:00 AM
Project:	LB89880	Date Received:	9/1/2017 12:00:00 AM
Client Sample ID:	MBDZS5	SDG No.:	LB89880
Lab Sample ID:	I5099-01	Matrix:	Solid
Level (low/med):	low	% Solid:	85.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.063	0.014	0.57	mg/kg	09/05/2017	09/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/31/2017 12:00:00 AM
Project:	LB89880	Date Received:	9/1/2017 12:00:00 AM
Client Sample ID:	MBDZS6	SDG No.:	LB89880
Lab Sample ID:	I5099-04	Matrix:	Solid
Level (low/med):	low	% Solid:	85.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.015	U	1	0.062	0.014	0.56	mg/kg	09/05/2017	09/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/31/2017 12:00:00 AM
Project:	LB89880	Date Received:	9/1/2017 12:00:00 AM
Client Sample ID:	MBDZS7	SDG No.:	LB89880
Lab Sample ID:	I5099-05	Matrix:	Solid
Level (low/med):	low	% Solid:	81.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.077	J	1	0.065	0.015	0.6	mg/kg	09/05/2017	09/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/31/2017 12:00:00 AM
Project:	LB89880	Date Received:	9/1/2017 12:00:00 AM
Client Sample ID:	MBDZT4	SDG No.:	LB89880
Lab Sample ID:	I5099-06	Matrix:	Solid
Level (low/med):	low	% Solid:	91.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.057	0.013	0.52	mg/kg	09/05/2017	09/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/31/2017 12:00:00 AM
Project:	LB89880	Date Received:	9/1/2017 12:00:00 AM
Client Sample ID:	MBDZT5	SDG No.:	LB89880
Lab Sample ID:	I5099-07	Matrix:	Solid
Level (low/med):	low	% Solid:	93.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.057	0.013	0.52	mg/kg	09/05/2017	09/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/31/2017 12:00:00 AM
Project:	LB89880	Date Received:	9/1/2017 12:00:00 AM
Client Sample ID:	MBDZT6	SDG No.:	LB89880
Lab Sample ID:	I5099-08	Matrix:	Solid
Level (low/med):	low	% Solid:	92.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.058	0.013	0.53	mg/kg	09/05/2017	09/05/2017	ISM02.4_CN



Report of Analysis

Client:		Date Collected:	8/31/2017 12:00:00 AM
Project:	LB89880	Date Received:	9/1/2017 12:00:00 AM
Client Sample ID:	MBDZT6	SDG No.:	LB89880
Lab Sample ID:	I5099-08	Matrix:	Solid
Level (low/med):	low	% Solid:	92.3

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: <u>LB89880</u>	SDG No.: <u>LB89880</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB89880</u>	SAS No.: <u>LB89880</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB102064							
PB102064BL	PBS006	MB	SOLID	09/05/2017	1.02	50.0	100.00
I5099-01	MBDZS5	SAM	SOLID	09/05/2017	1.03	50.0	85.10
I5099-02	MBDZS5D	DUP	SOLID	09/05/2017	1.04	50.0	85.10
I5099-03	MBDZS5S	MS	SOLID	09/05/2017	1.05	50.0	85.10
I5099-04	MBDZS6	SAM	SOLID	09/05/2017	1.04	50.0	85.80
I5099-05	MBDZS7	SAM	SOLID	09/05/2017	1.03	50.0	81.60
I5099-06	MBDZT4	SAM	SOLID	09/05/2017	1.05	50.0	91.10
I5099-07	MBDZT5	SAM	SOLID	09/05/2017	1.04	50.0	93.10
I5099-08	MBDZT6	SAM	SOLID	09/05/2017	1.03	50.0	92.30



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89880

SDG No.: LB89880

Contract: _____ Lab Code: CHEM

Case No.: LB89880

SAS No.: LB89880

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	95.6	99	97	0	85 - 115	CN	09/05/2017	16:52	LB89880

Metals**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB89880**SDG No.:** LB89880**Contract:** **Lab Code:** CHEM**Case No.:** LB89880**SAS No.:** LB89880**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	243	250	97	0	85 - 115	CN	09/05/2017	16:52	LB89880
CCV002	Cyanide	244	250	98	0	85 - 115	CN	09/05/2017	16:59	LB89880



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89880 **SDG No.:** LB89880
Contract: **Lab Code:** CHEM **Case No.:** LB89880 **SAS No.:** LB89880

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	09/05/2017	16:52	LB89880



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89880

SDG No.: LB89880

Contract:

Lab Code: CHEM

Case No.: LB89880

SAS No.: LB89880

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	09/05/2017	16:52	LB89880
CCB002	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	09/05/2017	16:59	LB89880



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89880

SDG No.: LB89880

Contract:

Lab Code: CHEM

Case No.: LB89880

SAS No.: LB89880

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.: LB89880

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB102064BL		SOLID		Batch Number:		PB102064		Prep Date:	09/05/2017	
	Cyanide	0.054	<0.49	U	0.012	0.49	CN	09/05/2017	16:52	LB89880



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB89880 level: low sdg no.: LB89880
contract: lab code: CHEM case no.: LB89880 sas no.: LB89880
matrix: Solid sample id: I5099-01 client id: MBDZS5S
Percent Solids for Sample: 85.1 Spiked ID: I5099-03 Percent Solids for Spike Sample: 85.1

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	5.0		0.57	U	5.6	89		CN



Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB89880 Level: LOW SDG No.: LB89880
Contract: _____ Lab Code: CHEM Case No.: LB89880 SAS No.: LB89880
Matrix: Solid Sample ID: I5099-01 Client ID: MBDZS5D
Percent Solids for Sample: 85.1 Duplicate ID I5099-02 Percent Solids for Spike Sample: 85.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.57	U		0	U		CN

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”