

Daily Analysis Runlog For Sequence/QC Batch ID # LB87089

Review By

Review On

SubDirectory

LB87089

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP54473,WP54472,WP54471,WP54470,WP54469,WP54468				
ICV Standard		WP54474				
CCV Standard		WP54475				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54486,WP51276,WP53945,WP53098				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	04/27/17 09:01		OK
2	S5.0	S5.0	CAL2	04/27/17 09:01		OK
3	S10.0	S10.0	CAL3	04/27/17 09:01		OK
4	S100.0	S100.0	CAL4	04/27/17 09:01		OK
5	S250.0	S250.0	CAL5	04/27/17 09:01		OK
6	S500.0	S500.0	CAL6	04/27/17 09:01		OK
7	ICV	ICV	ICV	04/27/17 10:45		OK
8	ICB	ICB	ICB	04/27/17 10:45		OK
9	CCV001	CCV001	CCV	04/27/17 10:45		OK
10	CCB001	CCB001	CCB	04/27/17 10:45		OK
11	PB98484BL	PBS006	MB	04/27/17 10:45		OK
12	I2840-01	MF4D71	SAM	04/27/17 10:46		OK
13	I2840-02	MF4D71D	DUP	04/27/17 10:46		OK
14	I2840-03	MF4D71S	MS	04/27/17 10:46		OK
15	I2840-04	MF4D72	SAM	04/27/17 10:53		OK
16	I2840-05	MF4D73	SAM	04/27/17 10:53		OK
17	I2840-06	MF4D74	SAM	04/27/17 10:53		OK
18	I2840-07	MF4D75	SAM	04/27/17 10:53		OK
19	I2840-08	MF4D76	SAM	04/27/17 10:53		OK
20	I2840-09	MF4D77	SAM	04/27/17 10:53		OK
21	I2840-10	MF4D78	SAM	04/27/17 10:53		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB87089

Review By			Review On			
SubDirectory		LB87089		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP54473,WP54472,WP54471,WP54470,WP54469,WP54468				
ICV Standard		WP54474				
CCV Standard		WP54475				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54486,WP51276,WP53945,WP53098				
22	I2840-11	MF4D79	SAM	04/27/17 10:53		OK
23	I2840-12	MF4D80	SAM	04/27/17 10:53		OK
24	I2840-13	MF4D81	SAM	04/27/17 10:53		OK
25	I2840-15	MF4D82	SAM	04/27/17 10:53		OK
26	I2840-16	MF4D83	SAM	04/27/17 11:01		OK
27	I2840-17	MF4D84	SAM	04/27/17 11:01		OK
28	I2840-18	MF4D85	SAM	04/27/17 11:01		OK
29	I2840-19	MF4D86	SAM	04/27/17 11:01		OK
30	I2840-20	MF4D88	SAM	04/27/17 11:01		OK
31	I2840-21	MF4D89	SAM	04/27/17 11:01		OK
32	I2840-22	MF4D90	SAM	04/27/17 11:01		OK
33	PB98495BL	PBW005	MB	04/27/17 11:01		OK
34	I2840-14	MF4A09	SAM	04/27/17 11:01		OK
35	CCV002	CCV002	CCV	04/27/17 11:01		OK
36	CCB002	CCB002	CCB	04/27/17 11:01		OK



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87089

SDG No.: LB87089

Contract: _____ **Lab Code:** CHEM

Case No.: LB87089 **SAS No.:** LB87089

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	96.2	99	97	0	85 - 115	CN	04/27/2017	10:45	LB87089



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87089

SDG No.: LB87089

Contract: _____ Lab Code: CHEM

Case No.: LB87089

SAS No.: LB87089

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	241	250	96	0	85 - 115	CN	04/27/2017	10:45	LB87089
CCV002	Cyanide	240	250	96	0	85 - 115	CN	04/27/2017	11:01	LB87089



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87089 **SDG No.:** LB87089
Contract: **Lab Code:** CHEM **Case No.:** LB87089 **SAS No.:** LB87089

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	04/27/2017	10:45	LB87089



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87089

SDG No.: LB87089

Contract:

Lab Code: CHEM

Case No.: LB87089

SAS No.: LB87089

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	04/27/2017	10:45	LB87089
CCB002	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	04/27/2017	11:01	LB87089



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87089

SDG No.: LB87089

Contract: Lab Code: CHEM

Case No.: LB87089

SAS No.: LB87089

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



Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: LB87089

SDG No.: LB87089

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB98484BL	SOLID		Batch Number:		PB98484		Prep Date:		04/26/2017	
	Cyanide	0.054	<0.49	U	0.012	0.49	CN	04/27/2017	10:45	LB87089
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB98495BL	WATER		Batch Number:		PB98495		Prep Date:		04/26/2017	
	Cyanide	1.5	<10	U	5.0	10	CN	04/27/2017	11:01	LB87089



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB87089 level: low sdg no.: LB87089
contract: lab code: CHEM case no.: LB87089 sas no.: LB87089
matrix: Solid sample id: I2840-01 client id: MF4D71S
Percent Solids for Sample: 85.2 Spiked ID: I2840-03 Percent Solids for Spike Sample: 85.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	5.2		0.54	U	5.6	93		CN

Metals**- 6 -****DUPLICATE SAMPLE SUMMARY**

Client: LB87089 **Level:** LOW **SDG No.:** LB87089
Contract: **Lab Code:** CHEM **Case No.:** LB87089 **SAS No.:** LB87089
Matrix: Solid **Sample ID:** I2840-01 **Client ID:** MF4D71D
Percent Solids for Sample: 85.2 **Duplicate ID** I2840-02 **Percent Solids for Spike Sample:** 85.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.54	U		0	U		CN



Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: LB87089 **SDG No.:** LB87089
Contract: **Lab Code:** CHEM **Method:**
Case No.: LB87089 **SAS No.:** LB87089

					Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date			
Batch Number: PB98484							
PB98484BL	PBS006	MB	SOLID	04/27/2017	1.02	50.0	100.00
I2840-01	MF4D71	SAM	SOLID	04/27/2017	1.08	50.0	85.20
I2840-02	MF4D71D	DUP	SOLID	04/27/2017	1.05	50.0	85.20
I2840-03	MF4D71S	MS	SOLID	04/27/2017	1.04	50.0	85.20
I2840-04	MF4D72	SAM	SOLID	04/27/2017	1.09	50.0	92.00
I2840-05	MF4D73	SAM	SOLID	04/27/2017	1.05	50.0	79.90
I2840-06	MF4D74	SAM	SOLID	04/27/2017	1.06	50.0	81.70
I2840-07	MF4D75	SAM	SOLID	04/27/2017	1.04	50.0	84.00
I2840-08	MF4D76	SAM	SOLID	04/27/2017	1.06	50.0	85.90
I2840-09	MF4D77	SAM	SOLID	04/27/2017	1.04	50.0	87.10
I2840-10	MF4D78	SAM	SOLID	04/27/2017	1.05	50.0	89.50
I2840-11	MF4D79	SAM	SOLID	04/27/2017	1.04	50.0	93.00
I2840-12	MF4D80	SAM	SOLID	04/27/2017	1.06	50.0	81.90
I2840-13	MF4D81	SAM	SOLID	04/27/2017	1.04	50.0	87.10
I2840-15	MF4D82	SAM	SOLID	04/27/2017	1.03	50.0	85.10
I2840-16	MF4D83	SAM	SOLID	04/27/2017	1.04	50.0	90.10
I2840-17	MF4D84	SAM	SOLID	04/27/2017	1.05	50.0	91.60
I2840-18	MF4D85	SAM	SOLID	04/27/2017	1.06	50.0	86.30
I2840-19	MF4D86	SAM	SOLID	04/27/2017	1.04	50.0	81.90
I2840-20	MF4D88	SAM	SOLID	04/27/2017	1.05	50.0	90.70
I2840-21	MF4D89	SAM	SOLID	04/27/2017	1.05	50.0	87.60
I2840-22	MF4D90	SAM	SOLID	04/27/2017	1.06	50.0	85.70



Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: LB87089 SDG No.: LB87089
Contract: Lab Code: CHEM Method:
Case No.: LB87089 SAS No.: LB87089

					Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date			
Batch Number: PB98495							
PB98495BL	PBW005	MB	WATER	04/27/2017	50.0	50.0	
I2840-14	MF4A09	SAM	WATER	04/27/2017	50.0	50.0	

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB87089 Contract: _____
Lab Code: CHEM Case No.: LB87089 MA No.: _____ SDG No.: LB87089
Instrument ID: CN Start Date: 04/27/2017
Analytical Method: _____ Run Batch: LB87089.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0	0	5	4.3	-14	10	9.6	-4

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB87089 Contract: _____
Lab Code: CHEM Case No.: LB87089 MA No.: _____ SDG No.: LB87089
Instrument ID: CN Start Date: 04/27/2017
Analytical Method: _____ Run Batch: LB87089.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	100	0	250	253	1	500	499	0