

Daily Analysis Runlog For Sequence/QC Batch ID # LB87372

Review By		Review On				
SubDirectory		LB87372		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP54820,WP54819,WP54818,WP54817,WP54816,WP54815				
ICV Standard		WP54821				
CCV Standard		WP54822				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54834,WP51626,WP53945				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	05/10/17 12:48		
2	S5.0	S5.0	CAL2	05/10/17 12:48		
3	S10.0	S10.0	CAL3	05/10/17 12:48		
4	S100.0	S100.0	CAL4	05/10/17 12:48		
5	S250.0	S250.0	CAL5	05/10/17 12:48		
6	S500.0	S500.0	CAL6	05/10/17 12:48		
7	ICV	ICV	ICV	05/10/17 13:19		
8	ICB	ICB	ICB	05/10/17 13:20		
9	CCV001	CCV001	CCV	05/10/17 13:20		
10	CCB001	CCB001	CCB	05/10/17 13:20		
11	PB98851BL	PBS006	MB	05/10/17 13:20		
12	I3016-01	PTS-01	SAM	05/10/17 13:20		
13	I3016-01D	PTS-01D	DUP	05/10/17 13:20		
14	I3016-01S	PTS-01S	MS	05/10/17 13:20		
15	CCV002	CCV002	CCV	05/10/17 13:20		
16	CCB002	CCB002	CCB	05/10/17 13:20		



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

Report of Analysis

Client:		Date Collected:	5/4/2017 12:00:00 AM
Project:	LB87372	Date Received:	5/4/2017 12:00:00 AM
Client Sample ID:	PTS-01	SDG No.:	LB87372
Lab Sample ID:	I3016-01	Matrix:	Solid
Level (low/med):	low	% Solid:	80.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.056	U	1	0.066	0.015	0.6	mg/kg	05/10/2017	05/10/2017	ISM02.4_CN



Report of Analysis

Client:		Date Collected:	5/4/2017 12:00:00 AM
Project:	LB87372	Date Received:	5/4/2017 12:00:00 AM
Client Sample ID:	PTS-01	SDG No.:	LB87372
Lab Sample ID:	I3016-01	Matrix:	Solid
Level (low/med):	low	% Solid:	80.7

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
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SAMPLE PREPARATION SUMMARY

Client: LB87372 SDG No.: LB87372
Contract: Lab Code: CHEM Method:
Case No.: LB87372 SAS No.: LB87372

						Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date				
Batch Number: PB98851								
PB98851BL	PBS006	MB	SOLID	05/10/2017		1.03	50.0	100.00
I3016-01	PTS-01	SAM	SOLID	05/10/2017		1.04	50.0	80.70
I3016-01D	PTS-01D	DUP	SOLID	05/10/2017		1.04	50.0	80.70
I3016-01S	PTS-01S	MS	SOLID	05/10/2017		1.04	50.0	80.70

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB87372 Contract: _____
Lab Code: CHEM Case No.: LB87372 MA No.: _____ SDG No.: LB87372
Instrument ID: CN Start Date: 05/10/2017
Analytical Method: _____ Run Batch: LB87372.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0	0	5	3.5	-30	10	8.3	-17

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB87372 Contract: _____
Lab Code: CHEM Case No.: LB87372 MA No.: _____ SDG No.: LB87372
Instrument ID: CN Start Date: 05/10/2017
Analytical Method: _____ Run Batch: LB87372.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	102	2	250	256	2	500	497	-1

Metals**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB87372**SDG No.:** LB87372**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB87372**SAS No.:** LB87372**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	95.8	99	97	0	85 - 115	CN	05/10/2017	13:19	LB87372

Metals**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB87372**SDG No.:** LB87372**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB87372**SAS No.:** LB87372**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	242	250	97	0	85 - 115	CN	05/10/2017	13:20	LB87372
CCV002	Cyanide	247	250	99	0	85 - 115	CN	05/10/2017	13:20	LB87372



Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87372 **SDG No.:** LB87372
Contract: **Lab Code:** CHEM **Case No.:** LB87372 **SAS No.:** LB87372

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	05/10/2017	13:20	LB87372



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87372

SDG No.: LB87372

Contract:

Lab Code: CHEM

Case No.: LB87372

SAS No.: LB87372

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	05/10/2017	13:20	LB87372
CCB002	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	05/10/2017	13:20	LB87372



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87372

SDG No.: LB87372

Contract: Lab Code: CHEM

Case No.: LB87372

SAS No.: LB87372

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: LB87372

SDG No.: LB87372

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB98851BL		SOLID		Batch Number:		PB98851		Prep Date:	05/10/2017	
	Cyanide	0.053	<0.49	J	0.012	0.49	CN	05/10/2017	13:20	LB87372



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB87372 level: low sdg no.: LB87372
contract: lab code: CHEM case no.: LB87372 sas no.: LB87372
matrix: Solid sample id: I3016-01 client id: PTS-01S
Percent Solids for Sample: 80.7 Spiked ID: I3016-01S Percent Solids for Spike Sample: 80.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	5.0		0.6	U	6	83		CN

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB87372 **Level:** LOW **SDG No.:** LB87372
Contract: **Lab Code:** CHEM **Case No.:** LB87372 **SAS No.:** LB87372
Matrix: Solid **Sample ID:** I3016-01 **Client ID:** PTS-01D
Percent Solids for Sample: 80.7 **Duplicate ID** I3016-01D **Percent Solids for Spike Sample:** 80.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.6	U	0.043	U			CN