

Daily Analysis Runlog For Sequence/QC Batch ID # LB89792

Review By		Review On				
SubDirectory		LB89792		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57578,WP57579,WP57580,WP57581,WP57582,WP57583,WP57584,WP57585				
ICV Standard		WP57588				
CCV Standard		WP57587				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		wp57586,wp55355,wp55836				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	08/30/17 08:42		OK
2	5.0PPBCN	5.0PPBCN	CAL2	08/30/17 08:42		OK
3	10PPBCN	10PPBCN	CAL3	08/30/17 08:42		OK
4	50PPBCN	50PPBCN	CAL4	08/30/17 08:42		OK
5	100PPBCN	100PPBCN	CAL5	08/30/17 08:42		OK
6	250PPBCN	250PPBCN	CAL6	08/30/17 08:42		OK
7	500PPBCN	500PPBCN	CAL7	08/30/17 08:42		OK
8	ICV1	ICV1	ICV	08/30/17 13:35		OK
9	ICB1	ICB1	ICB	08/30/17 13:35		OK
10	CCV1	CCV1	CCV	08/30/17 13:35		OK
11	CCB1	CCB1	CCB	08/30/17 13:35		OK
12	PB101936BL	PB101936BL	MB	08/30/17 13:35		OK
13	PB101936BS	PB101936BS	LCS	08/30/17 13:36		OK
14	LOW101936	LOW101936	SAM	08/30/17 13:43		OK
15	HIGHPB101936	HIGHPB101936	SAM	08/30/17 13:43		OK
16	I5025-05	TEC-COMP-3-6	SAM	08/30/17 13:43		OK
17	I5025-05DUP	TEC-COMP-3-6DUP	DUP	08/30/17 13:43		OK
18	I5025-05MS	TEC-COMP-3-6MS	MS	08/30/17 13:43		OK
19	I5025-05MSD	TEC-COMP-3-6MSD	MSD	08/30/17 13:43		OK
20	I5025-06	TEC-COMP-0-3	SAM	08/30/17 13:43		OK
21	I5025-07	TEC-COMP-6-9	SAM	08/30/17 13:43		OK



Instrument ID : KONELAB

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

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ICV Standard		WP57588				
CCV Standard		WP57587				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		wp57586,wp55355,wp55836				
22	CCV2	CCV2	CCV	08/30/17 13:43		OK
23	CCB2	CCB2	CCB	08/30/17 13:43		OK
24	I5025-08	TEC-COMP-9-12	SAM	08/30/17 13:48		OK
25	I5026-02	B-17(0-10)COMP	SAM	08/30/17 13:48		OK
26	CCV3	CCV3	CCV	08/30/17 13:48		OK
27	CCB3	CCB3	CCB	08/30/17 13:48		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB89792	Date Received:	
Client Sample ID:	HIGHPB101936	SDG No.:	LB89792
Lab Sample ID:	HIGHPB101936	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	0.48		1	0.003		0.005	mg/L		08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/29/2017 12:00:00 AM
Project:	LB89792	Date Received:	8/29/2017 12:00:00 AM
Client Sample ID:	TEC-COMP-3-6	SDG No.:	LB89792
Lab Sample ID:	I5025-05	Matrix:	Solid
Level (low/med):	low	% Solid:	95.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0056	U	1	0.034		0.25	mg/Kg	08/30/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/29/2017 12:00:00 AM
Project:	LB89792	Date Received:	8/29/2017 12:00:00 AM
Client Sample ID:	TEC-COMP-0-3	SDG No.:	LB89792
Lab Sample ID:	I5025-06	Matrix:	Solid
Level (low/med):	low	% Solid:	92.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.034		0.26	mg/Kg	08/30/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/29/2017 12:00:00 AM
Project:	LB89792	Date Received:	8/29/2017 12:00:00 AM
Client Sample ID:	TEC-COMP-6-9	SDG No.:	LB89792
Lab Sample ID:	I5025-07	Matrix:	Solid
Level (low/med):	low	% Solid:	95.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.012	U	1	0.033		0.25	mg/Kg	08/30/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/29/2017 12:00:00 AM
Project:	LB89792	Date Received:	8/29/2017 12:00:00 AM
Client Sample ID:	TEC-COMP-9-12	SDG No.:	LB89792
Lab Sample ID:	I5025-08	Matrix:	Solid
Level (low/med):	low	% Solid:	95.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0017	U	1	0.033		0.25	mg/Kg	08/30/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/29/2017 12:00:00 AM
Project:	LB89792	Date Received:	8/29/2017 12:00:00 AM
Client Sample ID:	B-17(0-10)COMP	SDG No.:	LB89792
Lab Sample ID:	I5026-02	Matrix:	Solid
Level (low/med):	low	% Solid:	93.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.3		1	0.034		0.26	mg/Kg	08/30/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB89792	Date Received:	
Client Sample ID:	LOW101936	SDG No.:	LB89792
Lab Sample ID:	LOW101936	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	0.01		1	0.003		0.005	mg/L		08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB89792	Date Received:	
Client Sample ID:	LOW101936	SDG No.:	LB89792
Lab Sample ID:	LOW101936	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



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89792 **SDG No.:** LB89792
Contract: **Lab Code:** CHEM **Case No.:** LB89792 **SAS No.:** LB89792

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00069	+/-0.005	U		0.005		08/30/2017	13:35	LB89792



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89792

SDG No.: LB89792

Contract:

Lab Code: CHEM

Case No.: LB89792

SAS No.: LB89792

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00023	+/-0.005	U		0.005		08/30/2017	13:35	LB89792
CCB2	Cyanide	-0.0001	+/-0.005	U		0.005		08/30/2017	13:43	LB89792
CCB3	Cyanide	-0.00066	+/-0.005	U		0.005		08/30/2017	13:48	LB89792



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB89792

SDG No.:

LB89792

Contract:

Lab Code:

CHEM

Case No.:

LB89792

SAS No.:

LB89792

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

Client: LB89792

SDG No.: LB89792

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB101936BL		SOLID		Batch Number:		PB101936		Prep Date:	08/30/2017	
	Cyanide	-0.015	<0.24	U		0.24		08/30/2017	13:35	LB89792



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB89792 level: low sdg no.: LB89792
contract: lab code: CHEM case no.: LB89792 sas no.: LB89792
matrix: Solid sample id: I5025-05 client id: TEC-COMP-3-6MS
Percent Solids for Sample: 95.4 Spiked ID: I5025-05MS Percent Solids for Spike Sample: 95.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2		0.034	U	2.1	95.2		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB89792 level: low sdg no.: LB89792
contract: lab code: CHEM case no.: LB89792 sas no.: LB89792
matrix: Solid sample id: I5025-05 client id: TEC-COMP-3-6MSD
Percent Solids for Sample: 95.4 Spiked ID: I5025-05MSD Percent Solids for Spike Sample: 95.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.034	U	2	95		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB89792 Level: LOW SDG No.: LB89792
Contract: _____ Lab Code: CHEM Case No.: LB89792 SAS No.: LB89792
Matrix: Solid Sample ID: I5025-05 Client ID: TEC-COMP-3-6DUP
Percent Solids for Sample: 95.4 Duplicate ID I5025-05DUP Percent Solids for Spike Sample: 95.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.034	U	-0.013	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB89792 Level: LOW SDG No.: LB89792
Contract: _____ Lab Code: CHEM Case No.: LB89792 SAS No.: LB89792
Matrix: Solid Sample ID: I5025-05MS Client ID: TEC-COMP-3-6MSD
Percent Solids for Sample: 95.4 Duplicate ID I5025-05MSD Percent Solids for Spike Sample: 95.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2		1.9		5		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89792

SDG No.: LB89792

Contract:

Lab Code: CHEM

Case No.: LB89792

SAS No.: LB89792

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB101936BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	