

Daily Analysis Runlog For Sequence/QC Batch ID # LB92132

Review By

Review On

SubDirectory

LB92132

Test :

Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP60316,WP60317,WP60318,WP60319,WP60320,WP60321,WP60322
ICV Standard	W1541
CCV Standard	WP60323
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP58910
Chk Standard	WP60325,WP59958,WP60150

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	12/13/17 11:02		OK
2	5.0PPBCN	5.0PPBCN	CAL2	12/13/17 11:02		OK
3	10PPBCN	10PPBCN	CAL3	12/13/17 11:02		OK
4	50PPBCN	50PPBCN	CAL4	12/13/17 11:02		OK
5	100PPBCN	100PPBCN	CAL5	12/13/17 11:02		OK
6	250PPBCN	250PPBCN	CAL6	12/13/17 11:02		OK
7	500PPBCN	500PPBCN	CAL7	12/13/17 11:02		OK
8	ICV1	ICV1	ICV	12/13/17 11:51		OK
9	ICB1	ICB1	ICB	12/13/17 11:51		OK
10	CCV1	CCV1	CCV	12/13/17 11:51		OK
11	CCB1	CCB1	CCB	12/13/17 11:51		OK
12	PB104981BL	PB104981BL	MB	12/13/17 11:51		OK
13	PB104981BS	PB104981BS	LCS	12/13/17 11:51		OK
14	LOWPB104981	LOWPB104981	SAM	12/13/17 11:51		OK
15	HIGHPB104981	HIGHPB104981	SAM	12/13/17 11:59		OK
16	I6827-01	WC-4539-01	SAM	12/13/17 11:59		OK
17	I6827-01DUP	WC-4539-01DUP	DUP	12/13/17 11:59		OK
18	I6827-01MS	WC-4539-01MS	MS	12/13/17 11:59		OK
19	I6827-01MSD	WC-4539-01MSD	MSD	12/13/17 11:59		OK
20	I6830-01	MAP-3-E(12-13)	SAM	12/13/17 11:59		OK
21	I6830-02	MAP-3-E(17-18)	SAM	12/13/17 11:59		OK

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Daily Analysis Runlog For Sequence/QC Batch ID # LB92132

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SubDirectory		Test : Cyanide				
LB92132						
STD. NAME		STD REF.#				
ICAL Standard		WP60316,WP60317,WP60318,WP60319,WP60320,WP60321,WP60322				
ICV Standard		W1541				
CCV Standard		WP60323				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP60325,WP59958,WP60150				
22	CCV2	CCV2	CCV	12/13/17 11:59		OK
23	CCB2	CCB2	CCB	12/13/17 11:59		OK
24	I6830-03	MAP-3-E(13-14)	SAM	12/13/17 11:59		OK
25	I6830-04	MAP-5-E(12-13)	SAM	12/13/17 11:59		OK
26	I6830-05	MAP-5-E(15-16)	SAM	12/13/17 12:04		OK
27	I6877-03	SB-7(0-2)	SAM	12/13/17 12:04		OK
28	I6885-02	WE-003	SAM	12/13/17 12:04		OK
29	CCV3	CCV3	CCV	12/13/17 12:05		OK
30	CCB3	CCB3	CCB	12/13/17 12:05		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB92132	Date Received:	
Client Sample ID:	HIGHPB104981	SDG No.:	LB92132
Lab Sample ID:	HIGHPB104981	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	0.49		1	0.003		0.005	mg/L		12/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/8/2017 12:00:00 AM
Project:	LB92132	Date Received:	12/8/2017 12:00:00 AM
Client Sample ID:	WC-4539-01	SDG No.:	LB92132
Lab Sample ID:	I6827-01	Matrix:	Solid
Level (low/med):	low	% Solid:	85.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	3.3		1	0.038		0.29	mg/Kg	12/13/2017	12/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/7/2017 12:00:00 AM
Project:	LB92132	Date Received:	12/8/2017 12:00:00 AM
Client Sample ID:	MAP-3-E(12-13)	SDG No.:	LB92132
Lab Sample ID:	I6830-01	Matrix:	Solid
Level (low/med):	low	% Solid:	81.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.04		0.3	mg/Kg	12/13/2017	12/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/7/2017 12:00:00 AM
Project:	LB92132	Date Received:	12/8/2017 12:00:00 AM
Client Sample ID:	MAP-3-E(17-18)	SDG No.:	LB92132
Lab Sample ID:	I6830-02	Matrix:	Solid
Level (low/med):	low	% Solid:	94.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.034		0.26	mg/Kg	12/13/2017	12/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/7/2017 12:00:00 AM
Project:	LB92132	Date Received:	12/8/2017 12:00:00 AM
Client Sample ID:	MAP-3-E(13-14)	SDG No.:	LB92132
Lab Sample ID:	I6830-03	Matrix:	Solid
Level (low/med):	low	% Solid:	87.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.048	J	1	0.037		0.28	mg/Kg	12/13/2017	12/13/2017	9012B

Report of Analysis

Client:		Date Collected:	12/7/2017 12:00:00 AM
Project:	LB92132	Date Received:	12/8/2017 12:00:00 AM
Client Sample ID:	MAP-5-E(12-13)	SDG No.:	LB92132
Lab Sample ID:	I6830-04	Matrix:	Solid
Level (low/med):	low	% Solid:	86.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.19	J	1	0.038		0.29	mg/Kg	12/13/2017	12/13/2017	9012B

Report of Analysis

Client:		Date Collected:	12/7/2017 12:00:00 AM
Project:	LB92132	Date Received:	12/8/2017 12:00:00 AM
Client Sample ID:	MAP-5-E(15-16)	SDG No.:	LB92132
Lab Sample ID:	I6830-05	Matrix:	Solid
Level (low/med):	low	% Solid:	89.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.17	J	1	0.035		0.27	mg/Kg	12/13/2017	12/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/11/2017 12:00:00 AM
Project:	LB92132	Date Received:	12/12/2017 12:00:00 AM
Client Sample ID:	SB-7(0-2)	SDG No.:	LB92132
Lab Sample ID:	I6877-03	Matrix:	Solid
Level (low/med):	low	% Solid:	83.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.56		1	0.037		0.28	mg/Kg	12/13/2017	12/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/8/2017 12:00:00 AM
Project:	LB92132	Date Received:	12/12/2017 12:00:00 AM
Client Sample ID:	WE-003	SDG No.:	LB92132
Lab Sample ID:	I6885-02	Matrix:	Solid
Level (low/med):	low	% Solid:	92.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.081	J	1	0.036		0.27	mg/Kg	12/13/2017	12/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB92132	Date Received:	
Client Sample ID:	LOWPB104981	SDG No.:	LB92132
Lab Sample ID:	LOWPB104981	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		12/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB92132	Date Received:	
Client Sample ID:	LOWPB104981	SDG No.:	LB92132
Lab Sample ID:	LOWPB104981	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

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92132

SDG No.: LB92132

Contract: _____

Lab Code: CHEM

Case No.: LB92132

SAS No.: LB92132

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Cyanide	0.096	0.099	97	0	85 - 115		12/13/2017	11:51	LB92132



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92132

SDG No.: LB92132

Contract: _____ Lab Code: CHEM

Case No.: LB92132

SAS No.: LB92132

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Cyanide	0.24	0.25	96	0	90 - 110		12/13/2017	11:51	LB92132
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		12/13/2017	11:59	LB92132
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		12/13/2017	12:05	LB92132



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92132 **SDG No.:** LB92132
Contract: **Lab Code:** CHEM **Case No.:** LB92132 **SAS No.:** LB92132

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00072	+/-0.005	U		0.005		12/13/2017	11:51	LB92132



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92132

SDG No.: LB92132

Contract:

Lab Code: CHEM

Case No.: LB92132

SAS No.: LB92132

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00065	+/-0.005	U		0.005		12/13/2017	11:51	LB92132
CCB2	Cyanide	0.0011	+/-0.005	U		0.005		12/13/2017	11:59	LB92132
CCB3	Cyanide	0.00087	+/-0.005	U		0.005		12/13/2017	12:05	LB92132



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92132

SDG No.: LB92132

Contract: Lab Code: CHEM

Case No.: LB92132

SAS No.: LB92132

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: LB92132

SDG No.: LB92132

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
PB104981BL		SOLID		Batch Number:		PB104981		Prep Date:	12/13/2017	
	Cyanide	0.037	<0.25	J		0.25		12/13/2017	11:51	LB92132



Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	6.4		3.3		2.2	141	*	

GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92132 level: low sdg no.: LB92132
contract: lab code: CHEM case no.: LB92132 sas no.: LB92132
matrix: Solid sample id: I6827-01 client id: WC-4539-01MSD
Percent Solids for Sample: 85.4 Spiked ID: I6827-01MSD Percent Solids for Spike Sample: 85.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	6.6		3.3		2.3	143	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92132 **Level:** LOW **SDG No.:** LB92132
Contract: **Lab Code:** CHEM **Case No.:** LB92132 **SAS No.:** LB92132
Matrix: Solid **Sample ID:** I6827-01 **Client ID:** WC-4539-01DUP
Percent Solids for Sample: 85.4 **Duplicate ID** I6827-01DUP **Percent Solids for Spike Sample:** 85.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	3.3		3.2		3		

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DUPLICATE SAMPLE SUMMARY

Client: LB92132 **Level:** LOW **SDG No.:** LB92132
Contract: **Lab Code:** CHEM **Case No.:** LB92132 **SAS No.:** LB92132
Matrix: Solid **Sample ID:** I6827-01MS **Client ID:** WC-4539-01MSD
Percent Solids for Sample: 85.4 **Duplicate ID** I6827-01MSD **Percent Solids for Spike Sample:** 85.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	6.4		6.6		3		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92132

SDG No.: LB92132

Contract:

Lab Code: CHEM

Case No.: LB92132

SAS No.: LB92132

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104981BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	