

Daily Analysis Runlog For Sequence/QC Batch ID # LB92313

Review By		Review On				
SubDirectory		LB92313		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP60493,WP60494,WP60495,WP60497,WP60498,WP60499,WP60500				
ICV Standard		W1541				
CCV Standard		WP60502				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP60504,WP59958,WP60150				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	12/21/17 11:24		OK
2	5.0PPBCN	5.0PPBCN	CAL2	12/21/17 11:24		OK
3	10PPBCN	10PPBCN	CAL3	12/21/17 11:24		OK
4	50PPBCN	50PPBCN	CAL4	12/21/17 11:24		OK
5	100PPBCN	100PPBCN	CAL5	12/21/17 11:24		OK
6	250PPBCN	250PPBCN	CAL6	12/21/17 11:24		OK
7	500PPBCN	500PPBCN	CAL7	12/21/17 11:24		OK
8	ICV1	ICV1	ICV	12/21/17 12:04		OK
9	ICB1	ICB1	ICB	12/21/17 12:04		OK
10	CCV1	CCV1	CCV	12/21/17 12:04		OK
11	CCB1	CCB1	CCB	12/21/17 12:04		OK
12	PB105243BL	PB105243BL	MB	12/21/17 12:04		OK
13	PB105243BS	PB105243BS	LCS	12/21/17 12:04		OK
14	LOWPB105243	LOWPB105243	SAM	12/21/17 12:04		OK
15	HIGHPB105243	HIGHPB105243	SAM	12/21/17 12:12		OK
16	I6683-07	EO-02-122017-A	SAM	12/21/17 12:12		OK
17	I6683-07DUP	EO-02-122017-ADUP	DUP	12/21/17 12:12		OK
18	I6683-07MS	EO-02-122017-AMS	MS	12/21/17 12:12		OK
19	I6683-07MSD	EO-02-122017-AMSD	MSD	12/21/17 12:12		OK
20	I6683-09	EO-02-122017-B	SAM	12/21/17 12:12		OK
21	I6683-11	EO-02-122017-C	SAM	12/21/17 12:12		OK

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SubDirectory		LB92313		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP60493,WP60494,WP60495,WP60497,WP60498,WP60499,WP60500				
ICV Standard		W1541				
CCV Standard		WP60502				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP60504,WP59958,WP60150				
22	CCV2	CCV2	CCV	12/21/17 12:12		OK
23	CCB2	CCB2	CCB	12/21/17 12:12		OK
24	PB105244BL	PB105244BL	MB	12/21/17 12:12		OK
25	PB105244BS	PB105244BS	LCS	12/21/17 12:12		OK
26	I7007-01	SV1854L	SAM	12/21/17 12:18		OK
27	I7007-01DUP	SV1854LDUP	DUP	12/21/17 12:18		OK
28	I7007-01MS	SV1854LMS	MS	12/21/17 12:18		OK
29	I7007-01MSD	SV1854LMSD	MSD	12/21/17 12:18		OK
30	CCV3	CCV3	CCV	12/21/17 12:18		OK
31	CCB3	CCB3	CCB	12/21/17 12:18		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB92313	Date Received:	
Client Sample ID:	HIGHPB105243	SDG No.:	LB92313
Lab Sample ID:	HIGHPB105243	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		12/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/20/2017 12:00:00 AM
Project:	LB92313	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	EO-02-122017-A	SDG No.:	LB92313
Lab Sample ID:	I6683-07	Matrix:	Solid
Level (low/med):	low	% Solid:	87.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.097	J	1	0.037		0.28	mg/Kg	12/21/2017	12/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/20/2017 12:00:00 AM
Project:	LB92313	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	EO-02-122017-B	SDG No.:	LB92313
Lab Sample ID:	I6683-09	Matrix:	Solid
Level (low/med):	low	% Solid:	89

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.036		0.27	mg/Kg	12/21/2017	12/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/20/2017 12:00:00 AM
Project:	LB92313	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	EO-02-122017-C	SDG No.:	LB92313
Lab Sample ID:	I6683-11	Matrix:	Solid
Level (low/med):	low	% Solid:	87.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.095	J	1	0.036		0.28	mg/Kg	12/21/2017	12/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/20/2017 12:00:00 AM
Project:	LB92313	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	SV1854L	SDG No.:	LB92313
Lab Sample ID:	I7007-01	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	0.0051		1	0.003		0.005	mg/L	12/21/2017	12/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB92313	Date Received:	
Client Sample ID:	LOWPB105243	SDG No.:	LB92313
Lab Sample ID:	LOWPB105243	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	0.0098		1	0.003		0.005	mg/L		12/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB92313	Date Received:	
Client Sample ID:	LOWPB105243	SDG No.:	LB92313
Lab Sample ID:	LOWPB105243	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: LB92313

SDG No.: LB92313

Contract: _____

Lab Code: CHEM

Case No.: LB92313

SAS No.: LB92313

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		12/21/2017	12:04	LB92313



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92313

SDG No.: LB92313

Contract: _____ Lab Code: CHEM

Case No.: LB92313

SAS No.: LB92313

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		12/21/2017	12:04	LB92313
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		12/21/2017	12:12	LB92313
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		12/21/2017	12:18	LB92313



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92313 **SDG No.:** LB92313
Contract: **Lab Code:** CHEM **Case No.:** LB92313 **SAS No.:** LB92313

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.0005	+/-0.005	U		0.005		12/21/2017	12:04	LB92313



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92313

SDG No.: LB92313

Contract:

Lab Code: CHEM

Case No.: LB92313

SAS No.: LB92313

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.0005	+/-0.005	U		0.005		12/21/2017	12:04	LB92313
CCB2	Cyanide	0.001	+/-0.005	U		0.005		12/21/2017	12:12	LB92313
CCB3	Cyanide	0.00077	+/-0.005	U		0.005		12/21/2017	12:18	LB92313



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92313

SDG No.: LB92313

Contract: Lab Code: CHEM

Case No.: LB92313

SAS No.: LB92313

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: LB92313

SDG No.: LB92313

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
PB105243BL	Cyanide	SOLID		Batch Number:		PB105243		Prep Date:	12/21/2017	
		0.022	<0.25	U		0.25		12/21/2017	12:04	LB92313
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB105244BL	Cyanide	WATER		Batch Number:		PB105244		Prep Date:	12/21/2017	
		0.00068	<0.005	U		0.005		12/21/2017	12:12	LB92313



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92313 level: low sdg no.: LB92313
contract: lab code: CHEM case no.: LB92313 sas no.: LB92313
matrix: Solid sample id: I6683-07 client id: EO-02-122017-AMS
Percent Solids for Sample: 87.8 Spiked ID: I6683-07MS Percent Solids for Spike Sample: 87.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2		0.097	J	2.2	87		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92313 level: low sdg no.: LB92313
contract: lab code: CHEM case no.: LB92313 sas no.: LB92313
matrix: Solid sample id: I6683-07 client id: EO-02-122017-AMSD
Percent Solids for Sample: 87.8 Spiked ID: I6683-07MSD Percent Solids for Spike Sample: 87.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125		2	0.097	J	2.2	87		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92313 level: low sdg no.: LB92313
contract: lab code: CHEM case no.: LB92313 sas no.: LB92313
matrix: WATER sample id: I7007-01 client id: SV1854LMS
Percent Solids for Sample: 0 Spiked ID: I7007-01MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.035		0.0051		0.04	75		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92313 level: low sdg no.: LB92313
contract: lab code: CHEM case no.: LB92313 sas no.: LB92313
matrix: WATER sample id: I7007-01 client id: SV1854LMSD
Percent Solids for Sample: 0 Spiked ID: I7007-01MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.035		0.0051		0.04	75		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92313 **Level:** LOW **SDG No.:** LB92313
Contract: **Lab Code:** CHEM **Case No.:** LB92313 **SAS No.:** LB92313
Matrix: Solid **Sample ID:** I6683-07 **Client ID:** EO-02-122017-ADUP
Percent Solids for Sample: 87.8 **Duplicate ID** I6683-07DUP **Percent Solids for Spike Sample:** 87.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.097	J	0.08	J	19		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92313 **Level:** LOW **SDG No.:** LB92313
Contract: **Lab Code:** CHEM **Case No.:** LB92313 **SAS No.:** LB92313
Matrix: Solid **Sample ID:** I6683-07MS **Client ID:** EO-02-122017-AMSD
Percent Solids for Sample: 87.8 **Duplicate ID** I6683-07MSD **Percent Solids for Spike Sample:** 87.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2		2		0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92313 Level: LOW SDG No.: LB92313
Contract: _____ Lab Code: CHEM Case No.: LB92313 SAS No.: LB92313
Matrix: WATER Sample ID: I7007-01 Client ID: SV1854LDUP
Percent Solids for Sample: 0 Duplicate ID I7007-01DUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.0051		0.0053		4		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92313 **Level:** LOW **SDG No.:** LB92313
Contract: **Lab Code:** CHEM **Case No.:** LB92313 **SAS No.:** LB92313
Matrix: WATER **Sample ID:** I7007-01MS **Client ID:** SV1854LMSD
Percent Solids for Sample: 0 **Duplicate ID** I7007-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.035		0.035		0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92313

SDG No.: LB92313

Contract:

Lab Code: CHEM

Case No.: LB92313

SAS No.: LB92313

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB105243BS Cyanide	mg/Kg	4.8	4.6		95.8	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92313

SDG No.: LB92313

Contract:

Lab Code: CHEM

Case No.: LB92313

SAS No.: LB92313

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB105244BS Cyanide	mg/L	0.1	0.096		96	85 - 115	