

Daily Analysis Runlog For Sequence/QC Batch ID # LB92258

Review By

Review On

SubDirectory

LB92258

Test :

Reactive Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP60438,WP60439,WP60440,WP60441,WP60442,WP60443,WP60444				
ICV Standard		WP60447				
CCV Standard		WP60445				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP60446,WP59958,WP60150				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	12/19/17 12:03		OK
2	5.0PPBCN	5.0PPBCN	CAL2	12/19/17 12:03		OK
3	10PPBCN	10PPBCN	CAL3	12/19/17 12:03		OK
4	50PPBCN	50PPBCN	CAL4	12/19/17 12:03		OK
5	100PPBCN	100PPBCN	CAL5	12/19/17 12:03		OK
6	250PPBCN	250PPBCN	CAL6	12/19/17 12:03		OK
7	500PPBCN	500PPBCN	CAL7	12/19/17 12:03		OK
8	ICV1	ICV1	ICV	12/19/17 14:37		OK
9	ICB1	ICB1	ICB	12/19/17 14:37		OK
10	CCV1	CCV1	CCV	12/19/17 14:37		OK
11	CCB1	CCB1	CCB	12/19/17 14:37		OK
12	PB105161BL	PB105161BL	MB	12/19/17 14:37		OK
13	I6676-09	OK-01-121817	SAM	12/19/17 14:37		OK
14	I6676-09DUP	OK-01-121817DUP	DUP	12/19/17 14:37		OK
15	I6682-02	NB-01-121817-A	SAM	12/19/17 14:45		OK
16	I6682-06	NB-01-121817-C	SAM	12/19/17 14:45		OK
17	I6973-03	B11(0-10)-COMP	SAM	12/19/17 14:45		OK
18	I6975-02	72-12000	SAM	12/19/17 14:45		OK
19	I6975-04	72-11989	SAM	12/19/17 14:45		OK
20	I6981-13	PHMHA-WCS	SAM	12/19/17 14:45		OK
21	CCV2	CCV2	CCV	12/19/17 14:45		OK

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SubDirectory		Test : Reactive Cyanide				
LB92258						
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ICAL Standard	WP60438,WP60439,WP60440,WP60441,WP60442,WP60443,WP60444					
ICV Standard	WP60447					
CCV Standard	WP60445					
ICSA Standard	N/A					
CRI Standard	N/A					
LCS Standard	N/A					
Chk Standard	WP60446,WP59958,WP60150					
22	CCB2	CCB2	CCB	12/19/17 14:45		OK
23	I6981-14	PHMHA-WCD	SAM	12/19/17 14:45		OK
24	I6981-15	PHMHB-WCS	SAM	12/19/17 14:45		OK
25	I6981-16	PHMHB-WCD	SAM	12/19/17 14:50		OK
26	PB105162BL	PB105162BL	MB	12/19/17 14:50		OK
27	I6983-02	PHMHB-WCW	SAM	12/19/17 14:50		OK
28	I6983-02DUP	PHMHB-WCWDUP	DUP	12/19/17 14:50		OK
29	I6682-04	NB-01-121817-B	SAM	12/19/17 15:13		OK
30	CCV3	CCV3	CCV	12/19/17 15:13		OK
31	CCB3	CCB3	CCB	12/19/17 15:13		OK

Report of Analysis

Client:		Date Collected:	12/18/2017 12:00:00 AM
Project:	LB92258	Date Received:	12/18/2017 12:00:00 AM
Client Sample ID:	OK-01-121817	SDG No.:	LB92258
Lab Sample ID:	I6676-09	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0091	U	1	0.025		0.05	mg/Kg	12/19/2017	12/19/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/18/2017 12:00:00 AM
Project:	LB92258	Date Received:	12/18/2017 12:00:00 AM
Client Sample ID:	NB-01-121817-A	SDG No.:	LB92258
Lab Sample ID:	I6682-02	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0053	U	1	0.025		0.05	mg/Kg	12/19/2017	12/19/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/18/2017 12:00:00 AM
Project:	LB92258	Date Received:	12/18/2017 12:00:00 AM
Client Sample ID:	NB-01-121817-B	SDG No.:	LB92258
Lab Sample ID:	I6682-04	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.01	U	1	0.025		0.05	mg/Kg	12/19/2017	12/19/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/18/2017 12:00:00 AM
Project:	LB92258	Date Received:	12/18/2017 12:00:00 AM
Client Sample ID:	NB-01-121817-C	SDG No.:	LB92258
Lab Sample ID:	I6682-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0053	U	1	0.025		0.05	mg/Kg	12/19/2017	12/19/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/18/2017 12:00:00 AM
Project:	LB92258	Date Received:	12/18/2017 12:00:00 AM
Client Sample ID:	B11(0-10)-COMP	SDG No.:	LB92258
Lab Sample ID:	I6973-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0085	U	1	0.025		0.05	mg/Kg	12/19/2017	12/19/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/18/2017 12:00:00 AM
Project:	LB92258	Date Received:	12/18/2017 12:00:00 AM
Client Sample ID:	72-12000	SDG No.:	LB92258
Lab Sample ID:	I6975-02	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.005	U	1	0.025		0.05	mg/Kg	12/19/2017	12/19/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/18/2017 12:00:00 AM
Project:	LB92258	Date Received:	12/18/2017 12:00:00 AM
Client Sample ID:	72-11989	SDG No.:	LB92258
Lab Sample ID:	I6975-04	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00046	U	1	0.025		0.05	mg/Kg	12/19/2017	12/19/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/18/2017 12:00:00 AM
Project:	LB92258	Date Received:	12/18/2017 12:00:00 AM
Client Sample ID:	PHMHA-WCS	SDG No.:	LB92258
Lab Sample ID:	I6981-13	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00097	U	1	0.025		0.05	mg/Kg	12/19/2017	12/19/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/18/2017 12:00:00 AM
Project:	LB92258	Date Received:	12/18/2017 12:00:00 AM
Client Sample ID:	PHMHA-WCD	SDG No.:	LB92258
Lab Sample ID:	I6981-14	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0073	U	1	0.025		0.05	mg/Kg	12/19/2017	12/19/2017	9012B

Report of Analysis

Client:		Date Collected:	12/18/2017 12:00:00 AM
Project:	LB92258	Date Received:	12/18/2017 12:00:00 AM
Client Sample ID:	PHMHB-WCS	SDG No.:	LB92258
Lab Sample ID:	I6981-15	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0081	U	1	0.025		0.05	mg/Kg	12/19/2017	12/19/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/18/2017 12:00:00 AM
Project:	LB92258	Date Received:	12/18/2017 12:00:00 AM
Client Sample ID:	PHMHB-WCD	SDG No.:	LB92258
Lab Sample ID:	I6981-16	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.01	U	1	0.025		0.05	mg/Kg	12/19/2017	12/19/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/18/2017 12:00:00 AM
Project:	LB92258	Date Received:	12/18/2017 12:00:00 AM
Client Sample ID:	PHMHB-WCW	SDG No.:	LB92258
Lab Sample ID:	I6983-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00086	U	1	0.0025		0.005	mg/L	12/19/2017	12/19/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/18/2017 12:00:00 AM
Project:	LB92258	Date Received:	12/18/2017 12:00:00 AM
Client Sample ID:	PHMHB-WCW	SDG No.:	LB92258
Lab Sample ID:	I6983-02	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: LB92258

SDG No.: LB92258

Contract: _____

Lab Code: CHEM

Case No.: LB92258

SAS No.: LB92258

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	Reactive Cyanide	0.097	0.099	98	0	85 - 115		12/19/2017	14:37	lb92258



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92258

SDG No.: LB92258

Contract: _____ Lab Code: CHEM

Case No.: LB92258

SAS No.: LB92258

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	Reactive Cyanide	0.25	0.25	100	0	90 - 110		12/19/2017	14:37	lb92258
CCV2	Reactive Cyanide	0.25	0.25	100	0	90 - 110		12/19/2017	14:45	lb92258
CCV3	Reactive Cyanide	0.26	0.25	104	0	90 - 110		12/19/2017	15:13	lb92258



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92258

SDG No.: LB92258

Contract:

Lab Code: CHEM

Case No.: LB92258

SAS No.: LB92258

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.00018	+/-0.005	U		0.005		12/19/2017	14:37	lb92258



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92258

SDG No.: LB92258

Contract:

Lab Code: CHEM

Case No.: LB92258

SAS No.: LB92258

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.0001	+/-0.005	U		0.005		12/19/2017	14:37	1b92258
CCB2	Reactive Cyanide	0.00077	+/-0.005	U		0.005		12/19/2017	14:45	1b92258
CCB3	Reactive Cyanide	0.0001	+/-0.005	U		0.005		12/19/2017	15:13	1b92258



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92258

SDG No.: LB92258

Contract: Lab Code: CHEM

Case No.: LB92258

SAS No.: LB92258

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: LB92258

SDG No.: LB92258

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
PB105161BL	Reactive Cyanide	SOLID		Batch Number:		PB105161		Prep Date:	12/19/2017	
		-0.0024	<0.05	U		0.05		12/19/2017	14:37	lb92258
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB105162BL	Reactive Cyanide	WATER		Batch Number:		PB105162		Prep Date:	12/19/2017	
		-0.0002	<0.005	U		0.005		12/19/2017	14:50	lb92258

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92258 **Level:** LOW **SDG No.:** LB92258
Contract: _____ **Lab Code:** CHEM **Case No.:** LB92258 **SAS No.:** LB92258
Matrix: Solid **Sample ID:** I6676-09 **Client ID:** OK-01-121817DUP
Percent Solids for Sample: 100 **Duplicate ID** I6676-09DUP **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	-0.011	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92258 **Level:** LOW **SDG No.:** LB92258
Contract: _____ **Lab Code:** CHEM **Case No.:** LB92258 **SAS No.:** LB92258
Matrix: WATER **Sample ID:** I6983-02 **Client ID:** PHMHB-WCWDUP
Percent Solids for Sample: 0 **Duplicate ID** I6983-02DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/L	20	0.0025	U	-0.00093	U			