

Daily Analysis Runlog For Sequence/QC Batch ID # LB91407

Review By

Review On

SubDirectory

LB91407

Test :

Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP59419,WP59420,WP59421,WP59422,WP59423,WP59424,WP59425
ICV Standard	W1541
CCV Standard	WP59428
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP58910
Chk Standard	WP59426,WP55836,WP55355

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/06/17 13:04		OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/06/17 13:04		OK
3	10PPBCN	10PPBCN	CAL3	11/06/17 13:04		OK
4	50PPBCN	50PPBCN	CAL4	11/06/17 13:04		OK
5	100PPBCN	100PPBCN	CAL5	11/06/17 13:04		OK
6	250PPBCN	250PPBCN	CAL6	11/06/17 13:04		OK
7	500PPBCN	500PPBCN	CAL7	11/06/17 13:04		OK
8	ICV1	ICV1	ICV	11/06/17 14:33		OK
9	ICB1	ICB1	ICB	11/06/17 14:33		OK
10	CCV1	CCV1	CCV	11/06/17 14:33		OK
11	CCB1	CCB1	CCB	11/06/17 14:33		OK
12	PB104002BL	PB104002BL	MB	11/06/17 14:33		OK
13	PB104002BS	PB104002BS	LCS	11/06/17 14:33		OK
14	LOWPB104002	LOWPB104002	SAM	11/06/17 14:33		OK
15	HIGHPB104002	HIGHPB104002	SAM	11/06/17 14:38		OK
16	I6305-01	PL-01-110317	SAM	11/06/17 14:38		OK
17	I6305-01DUP	PL-01-110317DUP	DUP	11/06/17 14:38		OK
18	I6305-01MS	PL-01-110317MS	MS	11/06/17 14:38		OK
19	I6305-01MSD	PL-01-110317MSD	MSD	11/06/17 14:38		OK
20	I6334-01	278	SAM	11/06/17 14:44		OK
21	I6337-01	WOODLAKE-COMP-	SAM	11/06/17 14:44		OK

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

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ICAL Standard		WP59419,WP59420,WP59421,WP59422,WP59423,WP59424,WP59425				
ICV Standard		W1541				
CCV Standard		WP59428				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP59426,WP55836,WP55355				
22	CCV2	CCV2	CCV	11/06/17 14:44		OK
23	CCB2	CCB2	CCB	11/06/17 14:44		OK
24	PB104003BL	PB104003BL	MB	11/06/17 14:44		OK
25	PB104003BS	PB104003BS	LCS	11/06/17 14:48		OK
26	I6338-02	TK2021L	SAM	11/06/17 14:48		OK
27	I6338-02DUP	TK2021LDUP	DUP	11/06/17 14:48		OK
28	I6338-02MS	TK2021LMS	MS	11/06/17 14:49		OK
29	I6338-02MSD	TK2021LMSD	MSD	11/06/17 14:49		OK
30	I6341-01	A6835DW-A6865DW	SAM	11/06/17 14:53		OK
31	CCV3	CCV3	CCV	11/06/17 14:53		OK
32	CCB3	CCB3	CCB	11/06/17 14:53		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB91407	Date Received:	
Client Sample ID:	HIGHPB104002	SDG No.:	LB91407
Lab Sample ID:	HIGHPB104002	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	0.5	OR	1	0.003		0.005	mg/L		11/06/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/3/2017 12:00:00 AM
Project:	LB91407	Date Received:	11/3/2017 12:00:00 AM
Client Sample ID:	PL-01-110317	SDG No.:	LB91407
Lab Sample ID:	I6305-01	Matrix:	Solid
Level (low/med):	low	% Solid:	84.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.037	U	1	0.038		0.29	mg/Kg	11/06/2017	11/06/2017	9012B

Report of Analysis

Client:		Date Collected:	11/3/2017 12:00:00 AM
Project:	LB91407	Date Received:	11/3/2017 12:00:00 AM
Client Sample ID:	278	SDG No.:	LB91407
Lab Sample ID:	I6334-01	Matrix:	Solid
Level (low/med):	low	% Solid:	91.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.016	U	1	0.035		0.26	mg/Kg	11/06/2017	11/06/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/3/2017 12:00:00 AM
Project:	LB91407	Date Received:	11/3/2017 12:00:00 AM
Client Sample ID:	WOODLAKE-COMP-5:1	SDG No.:	LB91407
Lab Sample ID:	I6337-01	Matrix:	Solid
Level (low/med):	low	% Solid:	84.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.044	J	1	0.037		0.28	mg/Kg	11/06/2017	11/06/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/3/2017 12:00:00 AM
Project:	LB91407	Date Received:	11/3/2017 12:00:00 AM
Client Sample ID:	TK2021L	SDG No.:	LB91407
Lab Sample ID:	I6338-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0059		1	0.003		0.005	mg/L	11/06/2017	11/06/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/3/2017 12:00:00 AM
Project:	LB91407	Date Received:	11/3/2017 12:00:00 AM
Client Sample ID:	A6835DW-A6865DW	SDG No.:	LB91407
Lab Sample ID:	I6341-01	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	0.00036	U	1	0.003		0.005	mg/L	11/06/2017	11/06/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB91407	Date Received:	
Client Sample ID:	LOWPB104002	SDG No.:	LB91407
Lab Sample ID:	LOWPB104002	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	0.0094		1	0.003		0.005	mg/L		11/06/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB91407	Date Received:	
Client Sample ID:	LOWPB104002	SDG No.:	LB91407
Lab Sample ID:	LOWPB104002	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: LB91407

SDG No.: LB91407

Contract: _____ Lab Code: CHEM

Case No.: LB91407

SAS No.: LB91407

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	0.25	0.25	100	0	90 - 110		11/06/2017	14:33	LB91407
CCV2	Cyanide	0.26	0.25	104	0	90 - 110		11/06/2017	14:44	LB91407
CCV3	Cyanide	0.26	0.25	104	0	90 - 110		11/06/2017	14:53	LB91407



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91407 **SDG No.:** LB91407
Contract: **Lab Code:** CHEM **Case No.:** LB91407 **SAS No.:** LB91407

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00033	+/-0.005	U		0.005		11/06/2017	14:33	LB91407

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00014	+/-0.005	U		0.005		11/06/2017	14:33	LB91407
CCB2	Cyanide	-0.00022	+/-0.005	U		0.005		11/06/2017	14:44	LB91407
CCB3	Cyanide	-0.0004	+/-0.005	U		0.005		11/06/2017	14:53	LB91407



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91407

SDG No.: LB91407

Contract: Lab Code: CHEM

Case No.: LB91407

SAS No.: LB91407

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

Client: LB91407

SDG No.: LB91407

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
PB104002BL	Cyanide	SOLID		Batch Number:		PB104002		Prep Date:	11/06/2017	
		-0.0095	<0.25	U		0.25		11/06/2017	14:33	LB91407
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB104003BL	Cyanide	WATER		Batch Number:		PB104003		Prep Date:	11/06/2017	
		-0.00091	<0.005	U		0.005		11/06/2017	14:44	LB91407



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91407 level: low sdg no.: LB91407
contract: lab code: CHEM case no.: LB91407 sas no.: LB91407
matrix: Solid sample id: I6305-01 client id: PL-01-110317MS
Percent Solids for Sample: 84.2 Spiked ID: I6305-01MS Percent Solids for Spike Sample: 84.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.4		0.038	U	2.3	104.3		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91407 level: low sdg no.: LB91407
contract: lab code: CHEM case no.: LB91407 sas no.: LB91407
matrix: Solid sample id: I6305-01 client id: PL-01-110317MSD
Percent Solids for Sample: 84.2 Spiked ID: I6305-01MSD Percent Solids for Spike Sample: 84.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.4		0.038	U	2.3	104.3		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91407 level: low sdg no.: LB91407
contract: lab code: CHEM case no.: LB91407 sas no.: LB91407
matrix: WATER sample id: I6338-02 client id: TK2021LMS
Percent Solids for Sample: 0 Spiked ID: I6338-02MS 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	0.047		0.0059		0.04	103		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91407 level: low sdg no.: LB91407
contract: lab code: CHEM case no.: LB91407 sas no.: LB91407
matrix: WATER sample id: I6338-02 client id: TK2021LMSD
Percent Solids for Sample: 0 Spiked ID: I6338-02MSD 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	0.046		0.0059		0.04	100		

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DUPLICATE SAMPLE SUMMARY

Client: LB91407 **Level:** LOW **SDG No.:** LB91407
Contract: **Lab Code:** CHEM **Case No.:** LB91407 **SAS No.:** LB91407
Matrix: Solid **Sample ID:** I6305-01 **Client ID:** PL-01-110317DUP
Percent Solids for Sample: 84.2 **Duplicate ID** I6305-01DUP **Percent Solids for Spike Sample:** 84.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.038	U	0.016	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB91407 **Level:** LOW **SDG No.:** LB91407
Contract: **Lab Code:** CHEM **Case No.:** LB91407 **SAS No.:** LB91407
Matrix: Solid **Sample ID:** I6305-01MS **Client ID:** PL-01-110317MSD
Percent Solids for Sample: 84.2 **Duplicate ID** I6305-01MSD **Percent Solids for Spike Sample:** 84.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.4		2.4		0		

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DUPLICATE SAMPLE SUMMARY

Client: LB91407 **Level:** LOW **SDG No.:** LB91407
Contract: **Lab Code:** CHEM **Case No.:** LB91407 **SAS No.:** LB91407
Matrix: WATER **Sample ID:** I6338-02 **Client ID:** TK2021LDUP
Percent Solids for Sample: 0 **Duplicate ID** I6338-02DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.0059		0.0058		2		

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DUPLICATE SAMPLE SUMMARY

Client: LB91407 **Level:** LOW **SDG No.:** LB91407
Contract: **Lab Code:** CHEM **Case No.:** LB91407 **SAS No.:** LB91407
Matrix: WATER **Sample ID:** I6338-02MS **Client ID:** TK2021LMSD
Percent Solids for Sample: 0 **Duplicate ID** I6338-02MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.047		0.046		2		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91407

SDG No.: LB91407

Contract:

Lab Code: CHEM

Case No.: LB91407

SAS No.: LB91407

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104002BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91407

SDG No.: LB91407

Contract:

Lab Code: CHEM

Case No.: LB91407

SAS No.: LB91407

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104003BS Cyanide	mg/L	0.1	0.1		100	85 - 115	