

Daily Analysis Runlog For Sequence/QC Batch ID # LB90256

Review By

Review On

SubDirectory

LB90256

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP58170,WP58171,WP58172,WP58173,WP58174,WP58175,WP58168				
ICV Standard		wp58176				
CCV Standard		wp58178				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58177,WP55355,WP55836				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	09/22/17 09:13		OK
2	5.0PPBCN	5.0PPBCN	CAL2	09/22/17 09:13		OK
3	10PPBCN	10PPBCN	CAL3	09/22/17 09:13		OK
4	50PPBCN	50PPBCN	CAL4	09/22/17 09:13		OK
5	100PPBCN	100PPBCN	CAL5	09/22/17 09:13		OK
6	250PPBCN	250PPBCN	CAL6	09/22/17 09:13		OK
7	500PPBCN	500PPBCN	CAL7	09/22/17 09:13		OK
8	ICV1	ICV1	ICV	09/22/17 11:00		OK
9	ICB1	ICB1	ICB	09/22/17 11:00		OK
10	CCV1	CCV1	CCV	09/22/17 11:00		OK
11	CCB1	CCB1	CCB	09/22/17 11:00		OK
12	PB102522BL	PB102522BL	MB	09/22/17 11:00		OK
13	PB102522BS	PB102522BS	LCS	09/22/17 11:00		OK
14	LOWPB102522	LOWPB102522	SAM	09/22/17 11:07		OK
15	HIGHPB102522	HIGHPB102522	SAM	09/22/17 11:07		OK
16	I5340-01	LT-TS-001	SAM	09/22/17 11:07		OK
17	I5340-01DUP	LT-TS-001DUP	DUP	09/22/17 11:07		OK
18	I5340-01MS	LT-TS-001MS	MS	09/22/17 11:07		OK
19	I5340-01MSD	LT-TS-001MSD	MSD	09/22/17 11:07		OK
20	I5340-02	LT-TS-002	SAM	09/22/17 11:07		OK
21	I5340-03	LT-TS-003	SAM	09/22/17 11:07		OK

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SubDirectory		LB90256		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58170,WP58171,WP58172,WP58173,WP58174,WP58175,WP58168				
ICV Standard		wp58176				
CCV Standard		wp58178				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58177,WP55355,WP55836				
22	CCV2	CCV2	CCV	09/22/17 11:15		OK
23	CCB2	CCB2	CCB	09/22/17 11:15		OK
24	I5340-04	LT-TS-004	SAM	09/22/17 11:15		OK
25	I5340-05	LT-TS-005	SAM	09/22/17 11:15		OK
26	I5340-06	LT-TS-006	SAM	09/22/17 11:15		OK
27	I5340-08	LT-TS-008	SAM	09/22/17 11:15		OK
28	I5340-09	LT-TS-009	SAM	09/22/17 11:15		OK
29	I5340-10	LT-TS-010	SAM	09/22/17 11:15		OK
30	I5340-11	LT-TS-011	SAM	09/22/17 11:15		OK
31	I5340-12	LT-TS-012	SAM	09/22/17 11:15		OK
32	I5340-07	LT-TS-007	SAM	09/22/17 11:46		OK
33	CCV3	CCV3	CCV	09/22/17 11:46		OK
34	CCB3	CCB3	CCB	09/22/17 11:46		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB90256	Date Received:	
Client Sample ID:	HIGHPB102522	SDG No.:	LB90256
Lab Sample ID:	HIGHPB102522	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		09/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90256	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	LT-TS-001	SDG No.:	LB90256
Lab Sample ID:	I5340-01	Matrix:	Solid
Level (low/med):	low	% Solid:	86.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.023	U	1	0.037		0.28	mg/Kg	09/21/2017	09/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90256	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	LT-TS-002	SDG No.:	LB90256
Lab Sample ID:	I5340-02	Matrix:	Solid
Level (low/med):	low	% Solid:	83.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.076	J	1	0.038		0.29	mg/Kg	09/21/2017	09/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90256	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	LT-TS-003	SDG No.:	LB90256
Lab Sample ID:	I5340-03	Matrix:	Solid
Level (low/med):	low	% Solid:	81.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.025	U	1	0.038		0.29	mg/Kg	09/21/2017	09/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90256	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	LT-TS-004	SDG No.:	LB90256
Lab Sample ID:	I5340-04	Matrix:	Solid
Level (low/med):	low	% Solid:	83

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.04	J	1	0.038		0.29	mg/Kg	09/21/2017	09/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90256	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	LT-TS-005	SDG No.:	LB90256
Lab Sample ID:	I5340-05	Matrix:	Solid
Level (low/med):	low	% Solid:	84.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.036	U	1	0.037		0.28	mg/Kg	09/21/2017	09/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90256	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	LT-TS-006	SDG No.:	LB90256
Lab Sample ID:	I5340-06	Matrix:	Solid
Level (low/med):	low	% Solid:	82.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.047	J	1	0.039		0.29	mg/Kg	09/21/2017	09/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90256	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	LT-TS-007	SDG No.:	LB90256
Lab Sample ID:	I5340-07	Matrix:	Solid
Level (low/med):	low	% Solid:	83.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.028	U	1	0.038		0.29	mg/Kg	09/21/2017	09/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90256	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	LT-TS-008	SDG No.:	LB90256
Lab Sample ID:	I5340-08	Matrix:	Solid
Level (low/med):	low	% Solid:	83.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.14	J	1	0.037		0.28	mg/Kg	09/21/2017	09/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90256	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	LT-TS-009	SDG No.:	LB90256
Lab Sample ID:	I5340-09	Matrix:	Solid
Level (low/med):	low	% Solid:	81.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.039		0.3	mg/Kg	09/21/2017	09/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90256	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	LT-TS-010	SDG No.:	LB90256
Lab Sample ID:	I5340-10	Matrix:	Solid
Level (low/med):	low	% Solid:	84

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.063	J	1	0.037		0.28	mg/Kg	09/21/2017	09/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90256	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	LT-TS-011	SDG No.:	LB90256
Lab Sample ID:	I5340-11	Matrix:	Solid
Level (low/med):	low	% Solid:	82.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.031	U	1	0.038		0.29	mg/Kg	09/21/2017	09/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/20/2017 12:00:00 AM
Project:	LB90256	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	LT-TS-012	SDG No.:	LB90256
Lab Sample ID:	I5340-12	Matrix:	Solid
Level (low/med):	low	% Solid:	86

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0054	U	1	0.037		0.28	mg/Kg	09/21/2017	09/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB90256	Date Received:	
Client Sample ID:	LOWPB102522	SDG No.:	LB90256
Lab Sample ID:	LOWPB102522	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	0.0085		1	0.003		0.005	mg/L		09/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB90256	Date Received:	
Client Sample ID:	LOWPB102522	SDG No.:	LB90256
Lab Sample ID:	LOWPB102522	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: LB90256

SDG No.: LB90256

Contract: _____ Lab Code: CHEM

Case No.: LB90256

SAS No.: LB90256

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	0.095	0.099	96	0	85 - 115		09/22/2017	11:00	LB90256



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90256

SDG No.: LB90256

Contract: _____ Lab Code: CHEM

Case No.: LB90256

SAS No.: LB90256

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		09/22/2017	11:00	LB90256
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		09/22/2017	11:15	LB90256
CCV3	Cyanide	0.26	0.25	104	0	90 - 110		09/22/2017	11:46	LB90256



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90256 **SDG No.:** LB90256
Contract: **Lab Code:** CHEM **Case No.:** LB90256 **SAS No.:** LB90256

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.0017	+/-0.005	U		0.005		09/22/2017	11:00	LB90256

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00055	+/-0.005	U		0.005		09/22/2017	11:00	LB90256
CCB2	Cyanide	0.0012	+/-0.005	U		0.005		09/22/2017	11:15	LB90256
CCB3	Cyanide	0.00081	+/-0.005	U		0.005		09/22/2017	11:46	LB90256



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90256

SDG No.: LB90256

Contract: Lab Code: CHEM

Case No.: LB90256

SAS No.: LB90256

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: LB90256

SDG No.: LB90256

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
PB102522BL	Cyanide	SOLID 0.0043	<0.25	Batch Number: U		PB102522 0.25		Prep Date: 09/22/2017	09/21/2017 11:00	LB90256



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90256 level: low sdg no.: LB90256
contract: lab code: CHEM case no.: LB90256 sas no.: LB90256
matrix: Solid sample id: I5340-01 client id: LT-TS-001MS
Percent Solids for Sample: 86.4 Spiked ID: I5340-01MS Percent Solids for Spike Sample: 86.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.037	U	2.3	82.6		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90256 level: low sdg no.: LB90256
contract: lab code: CHEM case no.: LB90256 sas no.: LB90256
matrix: Solid sample id: I5340-01 client id: LT-TS-001MSD
Percent Solids for Sample: 86.4 Spiked ID: I5340-01MSD Percent Solids for Spike Sample: 86.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.037	U	2.2	86.4		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB90256 Level: LOW SDG No.: LB90256
Contract: _____ Lab Code: CHEM Case No.: LB90256 SAS No.: LB90256
Matrix: Solid Sample ID: I5340-01 Client ID: LT-TS-001DUP
Percent Solids for Sample: 86.4 Duplicate ID I5340-01DUP Percent Solids for Spike Sample: 86.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.037	U	0.027	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB90256 **Level:** LOW **SDG No.:** LB90256
Contract: **Lab Code:** CHEM **Case No.:** LB90256 **SAS No.:** LB90256
Matrix: Solid **Sample ID:** I5340-01MS **Client ID:** LT-TS-001MSD
Percent Solids for Sample: 86.4 **Duplicate ID** I5340-01MSD **Percent Solids for Spike Sample:** 86.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.9		1.9		0		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90256

SDG No.: LB90256

Contract:

Lab Code: CHEM

Case No.: LB90256

SAS No.: LB90256

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB102522BS Cyanide	mg/Kg	4.9	4.6		93.9	85 - 115	