

Daily Analysis Runlog For Sequence/QC Batch ID # LB90051

Review By

SubDirectory

Review On

Test : Cyanide

LB90051

STD. NAME		STD REF.#				
ICAL Standard		WP57886,WP57887,WP57888,WP57889,WP57890,WP57891,WP57892				
ICV Standard		WP57895				
CCV Standard		WP57894				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57893,WP55355,WP55836				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	09/13/17 13:02		OK
2	5.0PPBCN	5.0PPBCN	CAL2	09/13/17 13:02		OK
3	10PPBCN	10PPBCN	CAL3	09/13/17 13:02		OK
4	50PPBCN	50PPBCN	CAL4	09/13/17 13:02		OK
5	100PPBCN	100PPBCN	CAL5	09/13/17 13:02		OK
6	250PPBCN	250PPBCN	CAL6	09/13/17 13:02		OK
7	500PPBCN	500PPBCN	CAL7	09/13/17 13:02		OK
8	ICV1	ICV1	ICV	09/13/17 14:28		OK
9	ICB1	ICB1	ICB	09/13/17 14:28		OK
10	CCV1	CCV1	CCV	09/13/17 14:28		OK
11	CCB1	CCB1	CCB	09/13/17 14:28		OK
12	PB102306BL	PB102306BL	MB	09/13/17 14:28		OK
13	PB102306BS	PB102306BS	LCS	09/13/17 14:35		OK
14	I5216-01MS	EO-02-091217-AMS	MS	09/13/17 14:35		OK
15	I5216-01MSD	EO-02-091217-AMSD	MSD	09/13/17 14:35		OK
16	I5216-04	EO-02-091217-B	SAM	09/13/17 14:35		OK
17	I5216-07	EO-02-091217-C	SAM	09/13/17 14:35		OK
18	CCV2	CCV2	CCV	09/13/17 14:42		OK
19	CCB2	CCB2	CCB	09/13/17 14:42		OK
20	I5218-01	SU-02-091217	SAM	09/13/17 14:42		OK
21	I5219-01	FK-PS-01-015	SAM	09/13/17 14:42		OK

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SubDirectory		LB90051		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57886,WP57887,WP57888,WP57889,WP57890,WP57891,WP57892				
ICV Standard		WP57895				
CCV Standard		WP57894				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57893,WP55355,WP55836				
22	I5222-01	SP-1	SAM	09/13/17 14:42		OK
23	I5222-05	SP-2	SAM	09/13/17 14:42		OK
24	LOWPB102306	LOWPB102306	SAM	09/13/17 15:02		OK
25	HIGHPB102306	HIGHPB102306	SAM	09/13/17 15:02		OK
26	I5216-01	EO-02-091217-A	SAM	09/13/17 15:02		OK
27	I5216-01DUP	EO-02-091217-ADUP	DUP	09/13/17 15:02		OK
28	CCV3	CCV3	CCV	09/13/17 15:02		OK
29	CCB3	CCB3	CCB	09/13/17 15:02		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB90051	Date Received:	
Client Sample ID:	HIGHPB102306	SDG No.:	LB90051
Lab Sample ID:	HIGHPB102306	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		09/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/12/2017 12:00:00 AM
Project:	LB90051	Date Received:	9/12/2017 12:00:00 AM
Client Sample ID:	EO-02-091217-A	SDG No.:	LB90051
Lab Sample ID:	I5216-01	Matrix:	Solid
Level (low/med):	low	% Solid:	93.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0035	U	1	0.034		0.26	mg/Kg	09/13/2017	09/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/12/2017 12:00:00 AM
Project:	LB90051	Date Received:	9/12/2017 12:00:00 AM
Client Sample ID:	EO-02-091217-B	SDG No.:	LB90051
Lab Sample ID:	I5216-04	Matrix:	Solid
Level (low/med):	low	% Solid:	91.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.043	U	1	0.035		0.26	mg/Kg	09/13/2017	09/13/2017	9012B

Report of Analysis

Client:		Date Collected:	9/12/2017 12:00:00 AM
Project:	LB90051	Date Received:	9/12/2017 12:00:00 AM
Client Sample ID:	EO-02-091217-C	SDG No.:	LB90051
Lab Sample ID:	I5216-07	Matrix:	Solid
Level (low/med):	low	% Solid:	91.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.058	U	1	0.034		0.26	mg/Kg	09/13/2017	09/13/2017	9012B

Report of Analysis

Client:		Date Collected:	9/12/2017 12:00:00 AM
Project:	LB90051	Date Received:	9/12/2017 12:00:00 AM
Client Sample ID:	SU-02-091217	SDG No.:	LB90051
Lab Sample ID:	I5218-01	Matrix:	Solid
Level (low/med):	low	% Solid:	87.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.049	U	1	0.036		0.27	mg/Kg	09/13/2017	09/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/12/2017 12:00:00 AM
Project:	LB90051	Date Received:	9/12/2017 12:00:00 AM
Client Sample ID:	FK-PS-01-015	SDG No.:	LB90051
Lab Sample ID:	I5219-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.07	U	1	0.034		0.26	mg/Kg	09/13/2017	09/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/12/2017 12:00:00 AM
Project:	LB90051	Date Received:	9/12/2017 12:00:00 AM
Client Sample ID:	SP-1	SDG No.:	LB90051
Lab Sample ID:	I5222-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.027	U	1	0.034		0.26	mg/Kg	09/13/2017	09/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/12/2017 12:00:00 AM
Project:	LB90051	Date Received:	9/12/2017 12:00:00 AM
Client Sample ID:	SP-2	SDG No.:	LB90051
Lab Sample ID:	I5222-05	Matrix:	Solid
Level (low/med):	low	% Solid:	90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.026	U	1	0.035		0.26	mg/Kg	09/13/2017	09/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB90051	Date Received:	
Client Sample ID:	LOWPB102306	SDG No.:	LB90051
Lab Sample ID:	LOWPB102306	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	0.0091		1	0.003		0.005	mg/L		09/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB90051	Date Received:	
Client Sample ID:	LOWPB102306	SDG No.:	LB90051
Lab Sample ID:	LOWPB102306	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: LB90051

SDG No.: LB90051

Contract: _____ Lab Code: CHEM

Case No.: LB90051

SAS No.: LB90051

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	0.097	0.099	98	0	85 - 115		09/13/2017	14:28	LB90051



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90051

SDG No.: LB90051

Contract: _____ Lab Code: CHEM

Case No.: LB90051

SAS No.: LB90051

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		09/13/2017	14:28	LB90051
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		09/13/2017	14:42	LB90051
CCV3	Cyanide	0.26	0.25	104	0	90 - 110		09/13/2017	15:02	LB90051



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90051 **SDG No.:** LB90051
Contract: **Lab Code:** CHEM **Case No.:** LB90051 **SAS No.:** LB90051

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00088	+/-0.005	U		0.005		09/13/2017	14:28	LB90051

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00096	+/-0.005	U		0.005		09/13/2017	14:28	LB90051
CCB2	Cyanide	-0.00067	+/-0.005	U		0.005		09/13/2017	14:42	LB90051
CCB3	Cyanide	-0.00059	+/-0.005	U		0.005		09/13/2017	15:02	LB90051



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90051

SDG No.: LB90051

Contract: Lab Code: CHEM

Case No.: LB90051

SAS No.: LB90051

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: LB90051

SDG No.: LB90051

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
PB102306BL	Cyanide	SOLID -0.048	<0.25	Batch Number: U		PB102306 0.25		Prep Date: 09/13/2017	09/13/2017 14:28	LB90051



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90051 level: low sdg no.: LB90051
contract: lab code: CHEM case no.: LB90051 sas no.: LB90051
matrix: Solid sample id: I5216-01 client id: EO-02-091217-AMS
Percent Solids for Sample: 93.6 Spiked ID: I5216-01MS Percent Solids for Spike Sample: 93.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.034	U	2.1	85.7		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90051 level: low sdg no.: LB90051
contract: lab code: CHEM case no.: LB90051 sas no.: LB90051
matrix: Solid sample id: I5216-01 client id: EO-02-091217-AMSD
Percent Solids for Sample: 93.6 Spiked ID: I5216-01MSD Percent Solids for Spike Sample: 93.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.034	U	2.1	85.7		

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90051 **Level:** LOW **SDG No.:** LB90051
Contract: **Lab Code:** CHEM **Case No.:** LB90051 **SAS No.:** LB90051
Matrix: Solid **Sample ID:** I5216-01 **Client ID:** EO-02-091217-ADUP
Percent Solids for Sample: 93.6 **Duplicate ID** I5216-01DUP **Percent Solids for Spike Sample:** 93.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.034	U	-0.017	U			

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90051 **Level:** LOW **SDG No.:** LB90051
Contract: **Lab Code:** CHEM **Case No.:** LB90051 **SAS No.:** LB90051
Matrix: Solid **Sample ID:** I5216-01MS **Client ID:** EO-02-091217-AMSD
Percent Solids for Sample: 93.6 **Duplicate ID** I5216-01MSD **Percent Solids for Spike Sample:** 93.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.8		1.8		0		



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- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90051

SDG No.: LB90051

Contract:

Lab Code: CHEM

Case No.: LB90051

SAS No.: LB90051

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB102306BS Cyanide	mg/Kg	4.9	4.6		93.9	85 - 115	