

Daily Analysis Runlog For Sequence/QC Batch ID # LB87310

Review By

Review On

SubDirectory

LB87310

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP54743,WP54744,WP54745,WP54746,WP54747,WP54748,WP54749,WP54750				
ICV Standard		W1540				
CCV Standard		WP54751				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP54751,WP51626,WP51276				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/08/17 17:50		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/08/17 17:50		OK
3	10PPBCN	10PPBCN	CAL3	05/08/17 17:50		OK
4	50PPBCN	50PPBCN	CAL4	05/08/17 17:50		OK
5	100PPBCN	100PPBCN	CAL5	05/08/17 17:50		OK
6	250PPBCN	250PPBCN	CAL6	05/08/17 17:50		OK
7	500PPBCN	500PPBCN	CAL7	05/08/17 17:50		OK
8	ICV1	ICV1	ICV	05/08/17 18:20		OK
9	ICB1	ICB1	ICB	05/08/17 18:20		OK
10	CCV1	CCV1	CCV	05/08/17 18:20		OK
11	CCB1	CCB1	CCB	05/08/17 18:20		OK
12	PB98754BL	PB98754BL	MB	05/08/17 18:20		OK
13	PB98754BS	PB98754BS	LCS	05/08/17 18:25		OK
14	LOWPB98754	LOWPB98754	SAM	05/08/17 18:25		OK
15	HIGHPB98754	HIGHPB98754	SAM	05/08/17 18:25		OK
16	I2969-01	TP4-5COMP	SAM	05/08/17 18:25		OK
17	I2969-01DUP	TP4-5COMPDUP	DUP	05/08/17 18:25		OK
18	I2977-01	IM-TS-EME-12	SAM	05/08/17 18:30		OK
19	CCV2	CCV2	CCV	05/08/17 18:30		OK
20	CCB2	CCB2	CCB	05/08/17 18:34		OK
21	I2996-01	SS-01	SAM	05/08/17 18:34		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB87310

Review By			Review On			
SubDirectory		LB87310		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP54743,WP54744,WP54745,WP54746,WP54747,WP54748,WP54749,WP54750				
ICV Standard		W1540				
CCV Standard		WP54751				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP54751,WP51626,WP51276				
22	I3004-01	EME-H	SAM	05/08/17 18:34		OK
23	I3007-01	EME-BW	SAM	05/08/17 18:34		OK
24	I3010-01	S-1	SAM	05/08/17 18:34		OK
25	I3010-03	S-2	SAM	05/08/17 18:39		OK
26	I3011-01	BP-1	SAM	05/08/17 18:39		OK
27	I3013-06	E2-CONCRETE-8-W	SAM	05/08/17 18:39		OK
28	I3013-07	E2-CONCRETE-9-EA	SAM	05/08/17 18:39		OK
29	I3022-01	WC-COMP-15	SAM	05/08/17 18:39		OK
30	CCV3	CCV3	CCV	05/08/17 18:43		OK
31	CCB3	CCB3	CCB	05/08/17 18:43		OK
32	I2969-11	TP1-COMP	SAM	05/08/17 18:46		OK
33	I2969-01MS	TP4-5COMPMS	MS	05/08/17 18:53		OK
34	I2969-01MSD	TP4-5COMPMSD	MSD	05/08/17 18:53		OK
35	CCV4	CCV4	CCV	05/08/17 18:55		OK
36	CCB4	CCB4	CCB	05/08/17 18:55		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB87310	Date Received:	
Client Sample ID:	HIGHPB98754	SDG No.:	LB87310
Lab Sample ID:	HIGHPB98754	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	0.51	OR	1	0.003		0.005	mg/L		05/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/1/2017 12:00:00 AM
Project:	LB87310	Date Received:	5/3/2017 12:00:00 AM
Client Sample ID:	TP4-5COMP	SDG No.:	LB87310
Lab Sample ID:	I2969-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.13	U	1	0.036		0.27	mg/Kg	05/05/2017	05/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2017 12:00:00 AM
Project:	LB87310	Date Received:	5/3/2017 12:00:00 AM
Client Sample ID:	TP1-COMP	SDG No.:	LB87310
Lab Sample ID:	I2969-11	Matrix:	Solid
Level (low/med):	low	% Solid:	88.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.11	U	1	0.035		0.27	mg/Kg	05/05/2017	05/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2017 12:00:00 AM
Project:	LB87310	Date Received:	5/4/2017 12:00:00 AM
Client Sample ID:	IM-TS-EME-12	SDG No.:	LB87310
Lab Sample ID:	I2977-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.12	U	1	0.036		0.27	mg/Kg	05/05/2017	05/08/2017	9012B

Report of Analysis

Client:		Date Collected:	5/4/2017 12:00:00 AM
Project:	LB87310	Date Received:	5/4/2017 12:00:00 AM
Client Sample ID:	SS-01	SDG No.:	LB87310
Lab Sample ID:	I2996-01	Matrix:	Solid
Level (low/med):	low	% Solid:	85.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.11	U	1	0.037		0.28	mg/Kg	05/05/2017	05/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/4/2017 12:00:00 AM
Project:	LB87310	Date Received:	5/4/2017 12:00:00 AM
Client Sample ID:	EME-H	SDG No.:	LB87310
Lab Sample ID:	I3004-01	Matrix:	Solid
Level (low/med):	low	% Solid:	83.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.11	U	1	0.037		0.28	mg/Kg	05/05/2017	05/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/4/2017 12:00:00 AM
Project:	LB87310	Date Received:	5/4/2017 12:00:00 AM
Client Sample ID:	EME-BW	SDG No.:	LB87310
Lab Sample ID:	I3007-01	Matrix:	Solid
Level (low/med):	low	% Solid:	84.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.12	U	1	0.036		0.28	mg/Kg	05/05/2017	05/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/2/2017 12:00:00 AM
Project:	LB87310	Date Received:	5/4/2017 12:00:00 AM
Client Sample ID:	S-1	SDG No.:	LB87310
Lab Sample ID:	I3010-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.097	U	1	0.034		0.26	mg/Kg	05/05/2017	05/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/2/2017 12:00:00 AM
Project:	LB87310	Date Received:	5/4/2017 12:00:00 AM
Client Sample ID:	S-2	SDG No.:	LB87310
Lab Sample ID:	I3010-03	Matrix:	Solid
Level (low/med):	low	% Solid:	88

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.093	U	1	0.034		0.26	mg/Kg	05/05/2017	05/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/4/2017 12:00:00 AM
Project:	LB87310	Date Received:	5/4/2017 12:00:00 AM
Client Sample ID:	BP-1	SDG No.:	LB87310
Lab Sample ID:	I3011-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.13	U	1	0.035		0.26	mg/Kg	05/05/2017	05/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/4/2017 12:00:00 AM
Project:	LB87310	Date Received:	5/4/2017 12:00:00 AM
Client Sample ID:	E2-CONCRETE-8-WEST	SDG No.:	LB87310
Lab Sample ID:	I3013-06	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	-0.11	U	1	0.033		0.25	mg/Kg	05/05/2017	05/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/4/2017 12:00:00 AM
Project:	LB87310	Date Received:	5/4/2017 12:00:00 AM
Client Sample ID:	E2-CONCRETE-9-EAST	SDG No.:	LB87310
Lab Sample ID:	I3013-07	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	-0.088	U	1	0.033		0.25	mg/Kg	05/05/2017	05/08/2017	9012B

Report of Analysis

Client:		Date Collected:	5/4/2017 12:00:00 AM
Project:	LB87310	Date Received:	5/5/2017 12:00:00 AM
Client Sample ID:	WC-COMP-15	SDG No.:	LB87310
Lab Sample ID:	I3022-01	Matrix:	Solid
Level (low/med):	low	% Solid:	35.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.29	U	1	0.087		0.66	mg/Kg	05/05/2017	05/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB87310	Date Received:	
Client Sample ID:	LOWPB98754	SDG No.:	LB87310
Lab Sample ID:	LOWPB98754	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	0.0095		1	0.003		0.005	mg/L		05/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB87310	Date Received:	
Client Sample ID:	LOWPB98754	SDG No.:	LB87310
Lab Sample ID:	LOWPB98754	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

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Cyanide	0.1	0.099	101	0	85 - 115		05/08/2017	18:20	LB87310



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87310

SDG No.: LB87310

Contract: _____ Lab Code: CHEM

Case No.: LB87310

SAS No.: LB87310

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	0.26	0.25	104	0	90 - 110		05/08/2017	18:20	LB87310
CCV2	Cyanide	0.26	0.25	104	0	90 - 110		05/08/2017	18:30	LB87310
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		05/08/2017	18:43	LB87310
CCV4	Cyanide	0.26	0.25	104	0	90 - 110		05/08/2017	18:55	LB87310

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00058	+/-0.005	U		0.005		05/08/2017	18:20	LB87310

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00016	+/-0.005	U		0.005		05/08/2017	18:20	LB87310
CCB2	Cyanide	-0.0012	+/-0.005	U		0.005		05/08/2017	18:34	LB87310
CCB3	Cyanide	-0.00042	+/-0.005	U		0.005		05/08/2017	18:43	LB87310
CCB4	Cyanide	-0.00043	+/-0.005	U		0.005		05/08/2017	18:55	LB87310



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87310

SDG No.: LB87310

Contract: Lab Code: CHEM

Case No.: LB87310

SAS No.: LB87310

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: LB87310

SDG No.: LB87310

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
PB98754BL	Cyanide	SOLID -0.023	<0.25	Batch Number: U		PB98754 0.25		Prep Date: 05/08/2017	05/05/2017 18:20	LB87310



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB87310 level: low sdg no.: LB87310
contract: lab code: CHEM case no.: LB87310 sas no.: LB87310
matrix: Solid sample id: I2969-01 client id: TP4-5COMPMS
Percent Solids for Sample: 88.2 Spiked ID: I2969-01MS Percent Solids for Spike Sample: 88.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.3		0.036	U	2.2	104.5		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB87310 level: low sdg no.: LB87310
contract: lab code: CHEM case no.: LB87310 sas no.: LB87310
matrix: Solid sample id: I2969-01 client id: TP4-5COMPMSD
Percent Solids for Sample: 88.2 Spiked ID: I2969-01MSD Percent Solids for Spike Sample: 88.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.3		0.036	U	2.2	104.5		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB87310 **Level:** LOW **SDG No.:** LB87310
Contract: **Lab Code:** CHEM **Case No.:** LB87310 **SAS No.:** LB87310
Matrix: Solid **Sample ID:** I2969-01 **Client ID:** TP4-5COMPDUP
Percent Solids for Sample: 88.2 **Duplicate ID** I2969-01DUP **Percent Solids for Spike Sample:** 88.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.036	U	-0.13	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB87310 **Level:** LOW **SDG No.:** LB87310
Contract: **Lab Code:** CHEM **Case No.:** LB87310 **SAS No.:** LB87310
Matrix: Solid **Sample ID:** I2969-01MS **Client ID:** TP4-5COMPMSD
Percent Solids for Sample: 88.2 **Duplicate ID** I2969-01MSD **Percent Solids for Spike Sample:** 88.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.3		2.3		0		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87310

SDG No.: LB87310

Contract:

Lab Code: CHEM

Case No.: LB87310

SAS No.: LB87310

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB98754BS Cyanide	mg/Kg	4.9	4.9		100	85 - 115	