

Daily Analysis Runlog For Sequence/QC Batch ID # LB89756

Review By

Review On

SubDirectory

LB89756

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP57525,WP57526,WP57527,WP57528,WP57529,WP57530,WP57531,WP57532,WP57533,WP57534				
ICV Standard		WP57534				
CCV Standard		WP57532				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57533,WP55355,WP55836				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	08/28/17 08:58		OK
2	5.0PPBCN	5.0PPBCN	CAL2	08/28/17 08:58		OK
3	10PPBCN	10PPBCN	CAL3	08/28/17 08:58		OK
4	50PPBCN	50PPBCN	CAL4	08/28/17 08:59		OK
5	100PPBCN	100PPBCN	CAL5	08/28/17 08:59		OK
6	250PPBCN	250PPBCN	CAL6	08/28/17 08:59		OK
7	500PPBCN	500PPBCN	CAL7	08/28/17 08:59		OK
8	ICV1	ICV1	ICV	08/28/17 14:27		OK
9	ICB1	ICB1	ICB	08/28/17 14:27		OK
10	CCV1	CCV1	CCV	08/28/17 14:27		OK
11	CCB1	CCB1	CCB	08/28/17 14:27		OK
12	PB101857BL	PB101857BL	MB	08/28/17 14:27		OK
13	PB101857BS	PB101857BS	LCS	08/28/17 14:34		OK
14	LOWPB101857	LOWPB101857	SAM	08/28/17 14:35		OK
15	HIGHPB101857	HIGHPB101857	SAM	08/28/17 14:35		OK
16	I4989-01	BERGEN-GEN-S1-C	SAM	08/28/17 14:35		OK
17	I4989-01DUP	BERGEN-GEN-S1-C	DUP	08/28/17 14:35		OK
18	I4989-01MS	BERGEN-GEN-S1-C	MS	08/28/17 14:35		OK
19	I4989-01MSD	BERGEN-GEN-S1-C	MSD	08/28/17 14:35		OK
20	I4989-04	BERGEN-GEN-S2-C	SAM	08/28/17 14:35		OK
21	I4989-07	BERGEN-GEN-S3-C	SAM	08/28/17 14:35		OK

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Review By		Review On				
SubDirectory		LB89756		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57525,WP57526,WP57527,WP57528,WP57529,WP57530,WP57531,WP57532,WP57533,WP57534				
ICV Standard		WP57534				
CCV Standard		WP57532				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57533,WP55355,WP55836				
22	CCV2	CCV2	CCV	08/28/17 14:35		OK
23	CCB2	CCB2	CCB	08/28/17 14:42		OK
24	I4989-10	BERGEN-GEN-S4-C	SAM	08/28/17 14:42		OK
25	I4992-01	SECTION-1-STONES	SAM	08/28/17 14:42		OK
26	I4992-03	SECTION-2-STONES	SAM	08/28/17 14:42		OK
27	I4993-01	HR-05-082517	SAM	08/28/17 14:42		OK
28	I4994-01	EO-01-082517-A	SAM	08/28/17 14:42		OK
29	I4994-04	EO-01-082517-B	SAM	08/28/17 14:42		OK
30	I4994-07	EO-01-082517-C	SAM	08/28/17 14:42		OK
31	CCV3	CCV3	CCV	08/28/17 14:42		OK
32	CCB3	CCB3	CCB	08/28/17 14:42		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB89756	Date Received:	
Client Sample ID:	HIGHPB101857	SDG No.:	LB89756
Lab Sample ID:	HIGHPB101857	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	0.49		1	0.003		0.005	mg/L		08/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/25/2017 12:00:00 AM
Project:	LB89756	Date Received:	8/25/2017 12:00:00 AM
Client Sample ID:	BERGEN-GEN-S1-COMP	SDG No.:	LB89756
Lab Sample ID:	I4989-01	Matrix:	Solid
Level (low/med):	low	% Solid:	91.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.012	U	1	0.035		0.26	mg/Kg	08/28/2017	08/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/25/2017 12:00:00 AM
Project:	LB89756	Date Received:	8/25/2017 12:00:00 AM
Client Sample ID:	BERGEN-GEN-S2-COMP	SDG No.:	LB89756
Lab Sample ID:	I4989-04	Matrix:	Solid
Level (low/med):	low	% Solid:	94.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.049	U	1	0.034		0.25	mg/Kg	08/28/2017	08/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/25/2017 12:00:00 AM
Project:	LB89756	Date Received:	8/25/2017 12:00:00 AM
Client Sample ID:	BERGEN-GEN-S3-COMP	SDG No.:	LB89756
Lab Sample ID:	I4989-07	Matrix:	Solid
Level (low/med):	low	% Solid:	92.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.019	U	1	0.034		0.26	mg/Kg	08/28/2017	08/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/25/2017 12:00:00 AM
Project:	LB89756	Date Received:	8/25/2017 12:00:00 AM
Client Sample ID:	BERGEN-GEN-S4-COMP	SDG No.:	LB89756
Lab Sample ID:	I4989-10	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	0.078	J	1	0.037		0.28	mg/Kg	08/28/2017	08/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/25/2017 12:00:00 AM
Project:	LB89756	Date Received:	8/25/2017 12:00:00 AM
Client Sample ID:	SECTION-1-STONES	SDG No.:	LB89756
Lab Sample ID:	I4992-01	Matrix:	Solid
Level (low/med):	low	% Solid:	96.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.027	U	1	0.033		0.25	mg/Kg	08/28/2017	08/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/25/2017 12:00:00 AM
Project:	LB89756	Date Received:	8/25/2017 12:00:00 AM
Client Sample ID:	SECTION-2-STONES	SDG No.:	LB89756
Lab Sample ID:	I4992-03	Matrix:	Solid
Level (low/med):	low	% Solid:	97.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0033	U	1	0.032		0.24	mg/Kg	08/28/2017	08/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/25/2017 12:00:00 AM
Project:	LB89756	Date Received:	8/25/2017 12:00:00 AM
Client Sample ID:	HR-05-082517	SDG No.:	LB89756
Lab Sample ID:	I4993-01	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	0.0096	U	1	0.035		0.26	mg/Kg	08/28/2017	08/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/25/2017 12:00:00 AM
Project:	LB89756	Date Received:	8/25/2017 12:00:00 AM
Client Sample ID:	EO-01-082517-A	SDG No.:	LB89756
Lab Sample ID:	I4994-01	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	0.0026	U	1	0.036		0.27	mg/Kg	08/28/2017	08/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/25/2017 12:00:00 AM
Project:	LB89756	Date Received:	8/25/2017 12:00:00 AM
Client Sample ID:	EO-01-082517-B	SDG No.:	LB89756
Lab Sample ID:	I4994-04	Matrix:	Solid
Level (low/med):	low	% Solid:	93.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.00049	U	1	0.033		0.25	mg/Kg	08/28/2017	08/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/25/2017 12:00:00 AM
Project:	LB89756	Date Received:	8/25/2017 12:00:00 AM
Client Sample ID:	EO-01-082517-C	SDG No.:	LB89756
Lab Sample ID:	I4994-07	Matrix:	Solid
Level (low/med):	low	% Solid:	92

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0012	U	1	0.034		0.26	mg/Kg	08/28/2017	08/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB89756	Date Received:	
Client Sample ID:	LOWPB101857	SDG No.:	LB89756
Lab Sample ID:	LOWPB101857	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	0.0089		1	0.003		0.005	mg/L		08/28/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB89756	Date Received:	
Client Sample ID:	LOWPB101857	SDG No.:	LB89756
Lab Sample ID:	LOWPB101857	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: LB89756

SDG No.: LB89756Contract: _____ Lab Code: CHEM

Case No.: LB89756

SAS No.: LB89756

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Cyanide	0.099	0.099	100	0	85 - 115		08/28/2017	14:27	LB89756



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89756

SDG No.: LB89756

Contract: _____ Lab Code: CHEM

Case No.: LB89756

SAS No.: LB89756

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		08/28/2017	14:27	LB89756
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		08/28/2017	14:35	LB89756
CCV3	Cyanide	0.26	0.25	104	0	90 - 110		08/28/2017	14:42	LB89756



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89756 **SDG No.:** LB89756
Contract: **Lab Code:** CHEM **Case No.:** LB89756 **SAS No.:** LB89756

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00041	+/-0.005	U		0.005		08/28/2017	14:27	LB89756



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89756

SDG No.: LB89756

Contract:

Lab Code: CHEM

Case No.: LB89756

SAS No.: LB89756

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00022	+/-0.005	U		0.005		08/28/2017	14:27	LB89756
CCB2	Cyanide	-0.00017	+/-0.005	U		0.005		08/28/2017	14:42	LB89756
CCB3	Cyanide	0.00038	+/-0.005	U		0.005		08/28/2017	14:42	LB89756



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89756

SDG No.: LB89756

Contract: Lab Code: CHEM

Case No.: LB89756

SAS No.: LB89756

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: LB89756

SDG No.: LB89756

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
PB101857BL	Cyanide	SOLID -0.022	<0.24	Batch Number: U		PB101857 0.24		Prep Date: 08/28/2017	08/28/2017 14:27	LB89756



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB89756 level: low sdg no.: LB89756
contract: lab code: CHEM case no.: LB89756 sas no.: LB89756
matrix: Solid sample id: I4989-01 client id: BERGEN-GEN-S1-COMPMS
Percent Solids for Sample: 91.8 Spiked ID: I4989-01MS Percent Solids for Spike Sample: 91.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2		0.035	U	2.1	95.2		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB89756 level: low sdg no.: LB89756
contract: lab code: CHEM case no.: LB89756 sas no.: LB89756
matrix: Solid sample id: I4989-01 client id: BERGEN-GEN-S1-COMPMSD
Percent Solids for Sample: 91.8 Spiked ID: I4989-01MSD Percent Solids for Spike Sample: 91.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125		2	0.035	U	2.1	95.2		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB89756 **Level:** LOW **SDG No.:** LB89756
Contract: **Lab Code:** CHEM **Case No.:** LB89756 **SAS No.:** LB89756
Matrix: Solid **Sample ID:** I4989-01 **Client ID:** BERGEN-GEN-S1-COMPDUP
Percent Solids for Sample: 91.8 **Duplicate ID** I4989-01DUP **Percent Solids for Spike Sample:** 91.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.035	U	-0.028	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB89756 **Level:** LOW **SDG No.:** LB89756
Contract: **Lab Code:** CHEM **Case No.:** LB89756 **SAS No.:** LB89756
Matrix: Solid **Sample ID:** I4989-01MS **Client ID:** BERGEN-GEN-S1-COMPMSD
Percent Solids for Sample: 91.8 **Duplicate ID** I4989-01MSD **Percent Solids for Spike Sample:** 91.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2		2		0		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89756

SDG No.: LB89756

Contract:

Lab Code: CHEM

Case No.: LB89756

SAS No.: LB89756

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB101857BS Cyanide	mg/Kg	4.9	4.9		100	85 - 115	