

Daily Analysis Runlog For Sequence/QC Batch ID # LB95384

Review By		Review On				
SubDirectory		LB95384		Test : Cyanide		

STD. NAME	STD REF.#
ICAL Standard	WP64511,WP64512,WP64513,WP64514,WP64515,WP64516,WP64157
ICV Standard	W1542
CCV Standard	WP64518
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP62802
Chk Standard	WP64520,WP59958,WP60878

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/16/18 07:47		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/16/18 07:48		OK
3	10PPBCN	10PPBCN	CAL3	05/16/18 07:48		OK
4	50PPBCN	50PPBCN	CAL4	05/16/18 07:48		OK
5	100PPBCN	100PPBCN	CAL5	05/16/18 07:48		OK
6	250PPBCN	250PPBCN	CAL6	05/16/18 07:48		OK
7	500PPBCN	500PPBCN	CAL7	05/16/18 07:48		OK
8	ICV1	ICV1	ICV	05/16/18 09:22		OK
9	ICB1	ICB1	ICB	05/16/18 09:22		OK
10	CCV1	CCV1	CCV	05/16/18 09:22		OK
11	CCB1	CCB1	CCB	05/16/18 09:22		OK
12	PB109308BL	PB109308BL	MB	05/16/18 09:22		OK
13	PB109308BS	PB109308BS	LCS	05/16/18 09:22		OK
14	LOWPB109308	LOWPB109308	SAM	05/16/18 09:22		OK
15	HIGHPB109308	HIGHPB109308	SAM	05/16/18 09:22		OK
16	J2785-01	BP-1A	SAM	05/16/18 09:22		OK
17	J2785-01DUP	BP-1ADUP	DUP	05/16/18 09:22		OK
18	J2785-01MS	BP-1AMS	MS	05/16/18 09:22		OK
19	J2785-01MSD	BP-1AMSD	MSD	05/16/18 09:30		OK
20	J2785-02	BP-1B	SAM	05/16/18 09:30		OK
21	J2785-04	BP-2A	SAM	05/16/18 09:30		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB95384

Review By			Review On			
SubDirectory		LB95384		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64511,WP64512,WP64513,WP64514,WP64515,WP64516,WP64157				
ICV Standard		W1542				
CCV Standard		WP64518				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64520,WP59958,WP60878				
22	CCV2	CCV2	CCV	05/16/18 09:30		OK
23	CCB2	CCB2	CCB	05/16/18 09:30		OK
24	J2785-05	BP-2B	SAM	05/16/18 09:30		OK
25	J2785-07	BP-3A	SAM	05/16/18 09:30		OK
26	J2785-08	BP-3B	SAM	05/16/18 09:30		OK
27	J2785-10	BP-4A	SAM	05/16/18 09:30		OK
28	J2785-11	BP-4B	SAM	05/16/18 09:30		OK
29	J2785-13	BP-5A	SAM	05/16/18 09:30		OK
30	J2785-14	BP-5B	SAM	05/16/18 09:35		OK
31	J2785-16	BP-6A	SAM	05/16/18 09:35		OK
32	J2785-17	BP-6B	SAM	05/16/18 09:35		OK
33	CCV3	CCV3	CCV	05/16/18 09:35		OK
34	CCB3	CCB3	CCB	05/16/18 09:35		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB95384	Date Received:	
Client Sample ID:	HIGHPB109308	SDG No.:	LB95384
Lab Sample ID:	HIGHPB109308	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		05/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95384	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	BP-1A	SDG No.:	LB95384
Lab Sample ID:	J2785-01	Matrix:	Solid
Level (low/med):	low	% Solid:	45.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.3	J	1	0.07		0.53	mg/Kg	05/15/2018	05/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95384	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	BP-1B	SDG No.:	LB95384
Lab Sample ID:	J2785-02	Matrix:	Solid
Level (low/med):	low	% Solid:	78.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.041		0.31	mg/Kg	05/15/2018	05/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95384	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	BP-2A	SDG No.:	LB95384
Lab Sample ID:	J2785-04	Matrix:	Solid
Level (low/med):	low	% Solid:	50.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.063		0.47	mg/Kg	05/15/2018	05/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95384	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	BP-2B	SDG No.:	LB95384
Lab Sample ID:	J2785-05	Matrix:	Solid
Level (low/med):	low	% Solid:	75.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.077	J	1	0.041		0.31	mg/Kg	05/15/2018	05/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95384	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	BP-3A	SDG No.:	LB95384
Lab Sample ID:	J2785-07	Matrix:	Solid
Level (low/med):	low	% Solid:	65

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.063	J	1	0.048		0.37	mg/Kg	05/15/2018	05/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95384	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	BP-3B	SDG No.:	LB95384
Lab Sample ID:	J2785-08	Matrix:	Solid
Level (low/med):	low	% Solid:	85.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.051	J	1	0.038		0.28	mg/Kg	05/15/2018	05/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95384	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	BP-4A	SDG No.:	LB95384
Lab Sample ID:	J2785-10	Matrix:	Solid
Level (low/med):	low	% Solid:	54.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.23	J	1	0.056		0.43	mg/Kg	05/15/2018	05/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95384	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	BP-4B	SDG No.:	LB95384
Lab Sample ID:	J2785-11	Matrix:	Solid
Level (low/med):	low	% Solid:	81.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.088	J	1	0.04		0.3	mg/Kg	05/15/2018	05/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95384	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	BP-5A	SDG No.:	LB95384
Lab Sample ID:	J2785-13	Matrix:	Solid
Level (low/med):	low	% Solid:	46.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.41	J	1	0.067		0.51	mg/Kg	05/15/2018	05/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95384	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	BP-5B	SDG No.:	LB95384
Lab Sample ID:	J2785-14	Matrix:	Solid
Level (low/med):	low	% Solid:	77.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.17	J	1	0.039		0.3	mg/Kg	05/15/2018	05/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95384	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	BP-6A	SDG No.:	LB95384
Lab Sample ID:	J2785-16	Matrix:	Solid
Level (low/med):	low	% Solid:	29.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.27	J	1	0.1		0.77	mg/Kg	05/15/2018	05/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95384	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	BP-6B	SDG No.:	LB95384
Lab Sample ID:	J2785-17	Matrix:	Solid
Level (low/med):	low	% Solid:	73.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.092	J	1	0.042		0.31	mg/Kg	05/15/2018	05/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB95384	Date Received:	
Client Sample ID:	LOWPB109308	SDG No.:	LB95384
Lab Sample ID:	LOWPB109308	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	0.011		1	0.003		0.005	mg/L		05/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB95384	Date Received:	
Client Sample ID:	LOWPB109308	SDG No.:	LB95384
Lab Sample ID:	LOWPB109308	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: LB95384

SDG No.: LB95384

Contract: _____

Lab Code: CHEM

Case No.: LB95384

SAS No.: LB95384

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Cyanide	0.097	0.099	98		85 - 115		05/16/2018	09:22	lb95384



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95384

SDG No.: LB95384

Contract: _____ Lab Code: CHEM

Case No.: LB95384

SAS No.: LB95384

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Cyanide	0.24	0.25	96		90 - 110		05/16/2018	09:22	lb95384
CCV2	Cyanide	0.24	0.25	96		90 - 110		05/16/2018	09:30	lb95384
CCV3	Cyanide	0.25	0.25	100		90 - 110		05/16/2018	09:35	lb95384



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95384 **SDG No.:** LB95384
Contract: **Lab Code:** CHEM **Case No.:** LB95384 **SAS No.:** LB95384

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.001	+/-0.005	U		0.005		05/16/2018	09:22	lb95384

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.0013	+/-0.005	U		0.005		05/16/2018	09:22	lb95384
CCB2	Cyanide	0.0011	+/-0.005	U		0.005		05/16/2018	09:30	lb95384
CCB3	Cyanide	0.0013	+/-0.005	U		0.005		05/16/2018	09:35	lb95384



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95384

SDG No.: LB95384

Contract: Lab Code: CHEM

Case No.: LB95384

SAS No.: LB95384

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: LB95384

SDG No.: LB95384

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
PB109308BL	Cyanide	SOLID 0.05	<0.24	Batch Number: J		PB109308 0.24		Prep Date: 05/16/2018	05/15/2018 09:22	lb95384



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95384 level: low sdg no.: LB95384
contract: lab code: CHEM case no.: LB95384 sas no.: LB95384
matrix: Solid sample id: J2785-01 client id: BP-1AMS
Percent Solids for Sample: 45.5 Spiked ID: J2785-01MS Percent Solids for Spike Sample: 45.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	4.3		0.3	J	4.3	93		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95384 level: low sdg no.: LB95384
contract: lab code: CHEM case no.: LB95384 sas no.: LB95384
matrix: Solid sample id: J2785-01 client id: BP-1AMSD
Percent Solids for Sample: 45.5 Spiked ID: J2785-01MSD Percent Solids for Spike Sample: 45.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	4.2		0.3	J	4.2	93		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95384 **Level:** LOW **SDG No.:** LB95384
Contract: **Lab Code:** CHEM **Case No.:** LB95384 **SAS No.:** LB95384
Matrix: Solid **Sample ID:** J2785-01 **Client ID:** BP-1ADUP
Percent Solids for Sample: 45.5 **Duplicate ID** J2785-01DUP **Percent Solids for Spike Sample:** 45.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.3	J	0.26	J	14		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95384 **Level:** LOW **SDG No.:** LB95384
Contract: **Lab Code:** CHEM **Case No.:** LB95384 **SAS No.:** LB95384
Matrix: Solid **Sample ID:** J2785-01MS **Client ID:** BP-1AMSD
Percent Solids for Sample: 45.5 **Duplicate ID** J2785-01MSD **Percent Solids for Spike Sample:** 45.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	4.3		4.2		2		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95384

SDG No.: LB95384

Contract:

Lab Code: CHEM

Case No.: LB95384

SAS No.: LB95384

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB109308BS Cyanide	mg/Kg	5	4.9		98	85 - 115	