

Daily Analysis Runlog For Sequence/QC Batch ID # LB95983

Review By		Review On				
SubDirectory		LB95983		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP65234,WP65235,WP65236,WP65237,WP65238,WP65239,WP65240				
ICV Standard		W1542				
CCV Standard		WP65241				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP65243,WP64695,WP64696				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/13/18 09:59		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/13/18 09:59		OK
3	10PPBCN	10PPBCN	CAL3	06/13/18 09:59		OK
4	50PPBCN	50PPBCN	CAL4	06/13/18 09:59		OK
5	100PPBCN	100PPBCN	CAL5	06/13/18 09:59		OK
6	250PPBCN	250PPBCN	CAL6	06/13/18 09:59		OK
7	500PPBCN	500PPBCN	CAL7	06/13/18 09:59		OK
8	ICV1	ICV1	ICV	06/13/18 15:52		OK
9	ICB1	ICB1	ICB	06/13/18 15:52		OK
10	CCV1	CCV1	CCV	06/13/18 15:52		OK
11	CCB1	CCB1	CCB	06/13/18 15:52		OK
12	PB110211BL	PB110211BL	MB	06/13/18 15:52		OK
13	PB110211BS	PB110211BS	LCS	06/13/18 15:52		OK
14	HIGHPB110211	HIGHPB110211	SAM	06/13/18 15:52		OK
15	J3246-01	OK-02-061218	SAM	06/13/18 15:52		OK
16	J3246-01DUP	OK-02-061218DUP	DUP	06/13/18 15:52		OK
17	J3246-01MS	OK-02-061218MS	MS	06/13/18 15:52		OK
18	J3246-01MSD	OK-02-061218MSD	MSD	06/13/18 15:59		OK
19	J3251-03	SU-03-061118	SAM	06/13/18 16:00		OK
20	J3459-01	MH-RO-341	SAM	06/13/18 16:00		OK
21	CCV2	CCV2	CCV	06/13/18 16:00		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB95983

Review By		Review On				
SubDirectory		LB95983		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP65234,WP65235,WP65236,WP65237,WP65238,WP65239,WP65240				
ICV Standard		W1542				
CCV Standard		WP65241				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP65243,WP64695,WP64696				
22	CCB2	CCB2	CCB	06/13/18 16:00		OK
23	J3465-01	TP-A1-WC-1	SAM	06/13/18 16:00		OK
24	J3465-03	TP-A2-WC-1	SAM	06/13/18 16:00		OK
25	J3465-05	TP-B4-WC-1	SAM	06/13/18 16:00		OK
26	PB110212BL	PB110212BL	MB	06/13/18 16:00		OK
27	PB110212BS	PB110212BS	LCS	06/13/18 16:00		OK
28	J3448-01	N-48971	SAM	06/13/18 16:00		OK
29	J3448-01DUP	N-48971DUP	DUP	06/13/18 16:07		OK
30	J3448-01MS	N-48971MS	MS	06/13/18 16:07		OK
31	J3448-01MSD	N-48971MSD	MSD	06/13/18 16:07		OK
32	J3448-03	N-48969	SAM	06/13/18 16:07		OK
33	CCV3	CCV3	CCV	06/13/18 16:07		OK
34	CCB3	CCB3	CCB	06/13/18 16:07		OK
35	J3448-05	N-48966	SAM	06/13/18 16:07		OK
36	J3451-01	VB-25830-SLUDGE	SAM	06/13/18 16:07		OK
37	J3451-03	VB-44949-SLUDGE	SAM	06/13/18 16:07		OK
38	J3456-01	ES-OILY-WATER	SAM	06/13/18 16:07		OK
39	LOWPB110211	LOWPB110211	SAM	06/13/18 16:32		OK
40	CCV4	CCV4	CCV	06/13/18 16:32		OK
41	CCB4	CCB4	CCB	06/13/18 16:32		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB95983	Date Received:	
Client Sample ID:	HIGHPB110211	SDG No.:	LB95983
Lab Sample ID:	HIGHPB110211	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		06/13/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2018 12:00:00 AM
Project:	LB95983	Date Received:	6/12/2018 12:00:00 AM
Client Sample ID:	OK-02-061218	SDG No.:	LB95983
Lab Sample ID:	J3246-01	Matrix:	Solid
Level (low/med):	low	% Solid:	96.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0045	U	1	0.034		0.25	mg/Kg	06/13/2018	06/13/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2018 12:00:00 AM
Project:	LB95983	Date Received:	6/12/2018 12:00:00 AM
Client Sample ID:	SU-03-061118	SDG No.:	LB95983
Lab Sample ID:	J3251-03	Matrix:	Solid
Level (low/med):	low	% Solid:	89.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.87		1	0.036		0.28	mg/Kg	06/13/2018	06/13/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2018 12:00:00 AM
Project:	LB95983	Date Received:	6/12/2018 12:00:00 AM
Client Sample ID:	N-48971	SDG No.:	LB95983
Lab Sample ID:	J3448-01	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	0.017		1	0.003		0.005	mg/L	06/13/2018	06/13/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2018 12:00:00 AM
Project:	LB95983	Date Received:	6/12/2018 12:00:00 AM
Client Sample ID:	N-48969	SDG No.:	LB95983
Lab Sample ID:	J3448-03	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	06/13/2018	06/13/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2018 12:00:00 AM
Project:	LB95983	Date Received:	6/12/2018 12:00:00 AM
Client Sample ID:	N-48966	SDG No.:	LB95983
Lab Sample ID:	J3448-05	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	0.0053		1	0.003		0.005	mg/L	06/13/2018	06/13/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2018 12:00:00 AM
Project:	LB95983	Date Received:	6/12/2018 12:00:00 AM
Client Sample ID:	VB-25830-SLUDGEBOX	SDG No.:	LB95983
Lab Sample ID:	J3451-01	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	0.09		1	0.003		0.005	mg/L	06/13/2018	06/13/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2018 12:00:00 AM
Project:	LB95983	Date Received:	6/12/2018 12:00:00 AM
Client Sample ID:	VB-44949-SLUDGEBOX	SDG No.:	LB95983
Lab Sample ID:	J3451-03	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	0.0005	U	1	0.003		0.005	mg/L	06/13/2018	06/13/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2018 12:00:00 AM
Project:	LB95983	Date Received:	6/12/2018 12:00:00 AM
Client Sample ID:	ES-OILY-WATER	SDG No.:	LB95983
Lab Sample ID:	J3456-01	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	0.00093	U	1	0.003		0.005	mg/L	06/13/2018	06/13/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/12/2018 12:00:00 AM
Project:	LB95983	Date Received:	6/12/2018 12:00:00 AM
Client Sample ID:	MH-RO-341	SDG No.:	LB95983
Lab Sample ID:	J3459-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.055	U	1	0.035		0.27	mg/Kg	06/13/2018	06/13/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/11/2018 12:00:00 AM
Project:	LB95983	Date Received:	6/12/2018 12:00:00 AM
Client Sample ID:	TP-A1-WC-1	SDG No.:	LB95983
Lab Sample ID:	J3465-01	Matrix:	Solid
Level (low/med):	low	% Solid:	85.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.045	U	1	0.037		0.28	mg/Kg	06/13/2018	06/13/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/11/2018 12:00:00 AM
Project:	LB95983	Date Received:	6/12/2018 12:00:00 AM
Client Sample ID:	TP-A2-WC-1	SDG No.:	LB95983
Lab Sample ID:	J3465-03	Matrix:	Solid
Level (low/med):	low	% Solid:	85.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.083	U	1	0.037		0.28	mg/Kg	06/13/2018	06/13/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/11/2018 12:00:00 AM
Project:	LB95983	Date Received:	6/12/2018 12:00:00 AM
Client Sample ID:	TP-B4-WC-1	SDG No.:	LB95983
Lab Sample ID:	J3465-05	Matrix:	Solid
Level (low/med):	low	% Solid:	85.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.012	U	1	0.037		0.28	mg/Kg	06/13/2018	06/13/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB95983	Date Received:	
Client Sample ID:	LOWPB110211	SDG No.:	LB95983
Lab Sample ID:	LOWPB110211	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	0.0086		1	0.003		0.005	mg/L		06/13/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB95983	Date Received:	
Client Sample ID:	LOWPB110211	SDG No.:	LB95983
Lab Sample ID:	LOWPB110211	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	%	Acceptance	M	Analysis	Analysis	Run
		mg/L		Recovery	Window (%R)		Date	Time	Number
ICV1	Cyanide	0.094	0.099	94.9	85 - 115		06/13/2018	15:52	LB95983



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95983

SDG No.: LB95983

Contract: _____ Lab Code: CHEM

Case No.: LB95983

SAS No.: LB95983

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		06/13/2018	15:52	LB95983
CCV2	Cyanide	0.24	0.25	96		90 - 110		06/13/2018	16:00	LB95983
CCV3	Cyanide	0.24	0.25	96		90 - 110		06/13/2018	16:07	LB95983
CCV4	Cyanide	0.25	0.25	100		90 - 110		06/13/2018	16:32	LB95983



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95983

SDG No.: LB95983

Contract:

Lab Code: CHEM

Case No.: LB95983

SAS No.: LB95983

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.0011	+/-0.005	U		0.005		06/13/2018	15:52	LB95983

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00066	+/-0.005	U		0.005		06/13/2018	15:52	LB95983
CCB2	Cyanide	-0.0012	+/-0.005	U		0.005		06/13/2018	16:00	LB95983
CCB3	Cyanide	-0.00058	+/-0.005	U		0.005		06/13/2018	16:07	LB95983
CCB4	Cyanide	-0.00054	+/-0.005	U		0.005		06/13/2018	16:32	LB95983



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95983

SDG No.: LB95983

Contract: Lab Code: CHEM

Case No.: LB95983

SAS No.: LB95983

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: LB95983

SDG No.: LB95983

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
PB110211BL	Cyanide	SOLID		Batch Number:		PB110211		Prep Date:	06/13/2018	
		-0.053	<0.24	U		0.24		06/13/2018	15:52	LB95983
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB110212BL	Cyanide	WATER		Batch Number:		PB110212		Prep Date:	06/13/2018	
		-0.0011	<0.005	U		0.005		06/13/2018	16:00	LB95983



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95983 level: low sdg no.: LB95983
contract: lab code: CHEM case no.: LB95983 sas no.: LB95983
matrix: Solid sample id: J3246-01 client id: OK-02-061218MS
Percent Solids for Sample: 96.3 Spiked ID: J3246-01MS Percent Solids for Spike Sample: 96.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.5		0.034	U	2	75		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95983 level: low sdg no.: LB95983
contract: lab code: CHEM case no.: LB95983 sas no.: LB95983
matrix: Solid sample id: J3246-01 client id: OK-02-061218MSD
Percent Solids for Sample: 96.3 Spiked ID: J3246-01MSD Percent Solids for Spike Sample: 96.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.5		0.034	U	2.1	71.4	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95983 level: low sdg no.: LB95983
contract: lab code: CHEM case no.: LB95983 sas no.: LB95983
matrix: WATER sample id: J3448-01 client id: N-48971MS
Percent Solids for Sample: 0 Spiked ID: J3448-01MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.051		0.017		0.04	85		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95983 level: low sdg no.: LB95983
contract: lab code: CHEM case no.: LB95983 sas no.: LB95983
matrix: WATER sample id: J3448-01 client id: N-48971MSD
Percent Solids for Sample: 0 Spiked ID: J3448-01MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.05		0.017		0.04	83		

GENCHEM**- 6 -****DUPLICATE SAMPLE SUMMARY**

Client: LB95983 **Level:** LOW **SDG No.:** LB95983
Contract: **Lab Code:** CHEM **Case No.:** LB95983 **SAS No.:** LB95983
Matrix: Solid **Sample ID:** J3246-01 **Client ID:** OK-02-061218DUP
Percent Solids for Sample: 96.3 **Duplicate ID** J3246-01DUP **Percent Solids for Spike Sample:** 96.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.034	U	-0.014	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95983 **Level:** LOW **SDG No.:** LB95983
Contract: **Lab Code:** CHEM **Case No.:** LB95983 **SAS No.:** LB95983
Matrix: Solid **Sample ID:** J3246-01MS **Client ID:** OK-02-061218MSD
Percent Solids for Sample: 96.3 **Duplicate ID** J3246-01MSD **Percent Solids for Spike Sample:** 96.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.5		1.5		0		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95983 **Level:** LOW **SDG No.:** LB95983
Contract: **Lab Code:** CHEM **Case No.:** LB95983 **SAS No.:** LB95983
Matrix: WATER **Sample ID:** J3448-01 **Client ID:** N-48971DUP
Percent Solids for Sample: 0 **Duplicate ID** J3448-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.017		0.017		0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95983 **Level:** LOW **SDG No.:** LB95983
Contract: **Lab Code:** CHEM **Case No.:** LB95983 **SAS No.:** LB95983
Matrix: WATER **Sample ID:** J3448-01MS **Client ID:** N-48971MSD
Percent Solids for Sample: 0 **Duplicate ID** J3448-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.051		0.05		2		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95983

SDG No.: LB95983

Contract:

Lab Code: CHEM

Case No.: LB95983

SAS No.: LB95983

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB110212BS Cyanide	mg/L	0.1	0.095		95	85 - 115	