

Daily Analysis Runlog For Sequence/QC Batch ID # LB95128

Review By

Review On

SubDirectory

LB95128

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP64218,WP64219,WP64220,WP64221,WP64222,WP64223,WP64224				
ICV Standard		W1542				
CCV Standard		WP64225				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64227,WP59958,WP60878				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/04/18 10:36		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/04/18 10:36		OK
3	10PPBCN	10PPBCN	CAL3	05/04/18 10:36		OK
4	50PPBCN	50PPBCN	CAL4	05/04/18 10:36		OK
5	100PPBCN	100PPBCN	CAL5	05/04/18 10:36		OK
6	250PPBCN	250PPBCN	CAL6	05/04/18 10:36		OK
7	500PPBCN	500PPBCN	CAL7	05/04/18 10:36		OK
8	ICV1	ICV1	ICV	05/04/18 14:31		OK
9	ICB1	ICB1	ICB	05/04/18 14:31		OK
10	CCV1	CCV1	CCV	05/04/18 14:31		OK
11	CCB1	CCB1	CCB	05/04/18 14:31		OK
12	PB108927BL	PB108927BL	MB	05/04/18 14:31		OK
13	PB108927BS	PB108927BS	LCS	05/04/18 14:31		OK
14	HIGHPB108927	HIGHPB108927	SAM	05/04/18 14:31		OK
15	J2672-01MS	BU-02-050318MS	MS	05/04/18 14:31		OK
16	J2672-01MSD	BU-02-050318MSD	MSD	05/04/18 14:38		OK
17	J2722-02	OILY-STONES	SAM	05/04/18 14:38		OK
18	J2733-02	TP-1A-COMP	SAM	05/04/18 14:38		OK
19	CCV2	CCV2	CCV	05/04/18 14:38		OK
20	CCB2	CCB2	CCB	05/04/18 14:38		OK
21	J2733-06	TP-3AB-COMP	SAM	05/04/18 14:38		OK

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SubDirectory		LB95128		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64218,WP64219,WP64220,WP64221,WP64222,WP64223,WP64224				
ICV Standard		W1542				
CCV Standard		WP64225				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64227,WP59958,WP60878				
22	J2733-10	TP-5AB-COMP	SAM	05/04/18 14:38		OK
23	PB108928BL	PB108928BL	MB	05/04/18 14:38		OK
24	PB108928BS	PB108928BS	LCS	05/04/18 14:38		OK
25	J2695-07	CS-DRUM-2	SAM	05/04/18 14:38		OK
26	J2695-07DUP	CS-DRUM-2DUP	DUP	05/04/18 14:38		OK
27	J2695-07MS	CS-DRUM-2MS	MS	05/04/18 14:43		OK
28	J2695-07MSD	CS-DRUM-2MSD	MSD	05/04/18 14:43		OK
29	J2729-01	VB16119	SAM	05/04/18 14:43		OK
30	CCV3	CCV3	CCV	05/04/18 14:43		OK
31	CCB3	CCB3	CCB	05/04/18 14:43		OK
32	LOWPB108927	LOWPB108927	SAM	05/04/18 15:17		OK
33	J2672-01	BU-02-050318	SAM	05/04/18 15:17		OK
34	J2672-01DUP	BU-02-050318DUP	DUP	05/04/18 15:17		OK
35	CCV4	CCV4	CCV	05/04/18 15:17		OK
36	CCB4	CCB4	CCB	05/04/18 15:17		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB95128	Date Received:	
Client Sample ID:	HIGHPB108927	SDG No.:	LB95128
Lab Sample ID:	HIGHPB108927	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		05/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95128	Date Received:	5/3/2018 12:00:00 AM
Client Sample ID:	BU-02-050318	SDG No.:	LB95128
Lab Sample ID:	J2672-01	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	0.016	U	1	0.035		0.27	mg/Kg	05/04/2018	05/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95128	Date Received:	5/3/2018 12:00:00 AM
Client Sample ID:	CS-DRUM-2	SDG No.:	LB95128
Lab Sample ID:	J2695-07	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	0.046		1	0.003		0.005	mg/L	05/04/2018	05/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95128	Date Received:	5/3/2018 12:00:00 AM
Client Sample ID:	OILY-STONES	SDG No.:	LB95128
Lab Sample ID:	J2722-02	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.068	J	1	0.032		0.24	mg/Kg	05/04/2018	05/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95128	Date Received:	5/3/2018 12:00:00 AM
Client Sample ID:	VB16119	SDG No.:	LB95128
Lab Sample ID:	J2729-01	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	0.061		1	0.003		0.005	mg/L	05/04/2018	05/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95128	Date Received:	5/3/2018 12:00:00 AM
Client Sample ID:	TP-1A-COMP	SDG No.:	LB95128
Lab Sample ID:	J2733-02	Matrix:	Solid
Level (low/med):	low	% Solid:	87.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	1.3		1	0.035		0.26	mg/Kg	05/04/2018	05/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95128	Date Received:	5/3/2018 12:00:00 AM
Client Sample ID:	TP-3AB-COMP	SDG No.:	LB95128
Lab Sample ID:	J2733-06	Matrix:	Solid
Level (low/med):	low	% Solid:	87.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.036		0.27	mg/Kg	05/04/2018	05/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95128	Date Received:	5/3/2018 12:00:00 AM
Client Sample ID:	TP-5AB-COMP	SDG No.:	LB95128
Lab Sample ID:	J2733-10	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	0.43		1	0.036		0.27	mg/Kg	05/04/2018	05/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB95128	Date Received:	
Client Sample ID:	LOWPB108927	SDG No.:	LB95128
Lab Sample ID:	LOWPB108927	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	0.01		1	0.003		0.005	mg/L		05/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB95128	Date Received:	
Client Sample ID:	LOWPB108927	SDG No.:	LB95128
Lab Sample ID:	LOWPB108927	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: LB95128

SDG No.: LB95128

Contract: _____ Lab Code: CHEM

Case No.: LB95128

SAS No.: LB95128

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	0.25	0.25	100		90 - 110		05/04/2018	14:31	lb95128
CCV2	Cyanide	0.24	0.25	96		90 - 110		05/04/2018	14:38	lb95128
CCV3	Cyanide	0.26	0.25	104		90 - 110		05/04/2018	14:43	lb95128
CCV4	Cyanide	0.25	0.25	100		90 - 110		05/04/2018	15:17	lb95128



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95128 **SDG No.:** LB95128
Contract: **Lab Code:** CHEM **Case No.:** LB95128 **SAS No.:** LB95128

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.0002	+/-0.005	U		0.005		05/04/2018	14:31	lb95128

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00075	+/-0.005	U		0.005		05/04/2018	14:31	lb95128
CCB2	Cyanide	0.0004	+/-0.005	U		0.005		05/04/2018	14:38	lb95128
CCB3	Cyanide	0.0001	+/-0.005	U		0.005		05/04/2018	14:43	lb95128
CCB4	Cyanide	-0.00042	+/-0.005	U		0.005		05/04/2018	15:17	lb95128



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95128

SDG No.: LB95128

Contract: Lab Code: CHEM

Case No.: LB95128

SAS No.: LB95128

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: LB95128

SDG No.: LB95128

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
PB108927BL	Cyanide	SOLID		Batch Number:		PB108927		Prep Date:	05/04/2018	
		0.026	<0.25	U		0.25		05/04/2018	14:31	lb95128
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB108928BL	Cyanide	WATER		Batch Number:		PB108928		Prep Date:	05/04/2018	
		-0.00026	<0.005	U		0.005		05/04/2018	14:38	lb95128



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95128 level: low sdg no.: LB95128
contract: lab code: CHEM case no.: LB95128 sas no.: LB95128
matrix: Solid sample id: J2672-01 client id: BU-02-050318MS
Percent Solids for Sample: 90.6 Spiked ID: J2672-01MS Percent Solids for Spike Sample: 90.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.035	U	2.1	100		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95128 level: low sdg no.: LB95128
contract: lab code: CHEM case no.: LB95128 sas no.: LB95128
matrix: Solid sample id: J2672-01 client id: BU-02-050318MSD
Percent Solids for Sample: 90.6 Spiked ID: J2672-01MSD Percent Solids for Spike Sample: 90.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.035	U	2.2	95.5		



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- 5a -
MATRIX SPIKE SUMMARY

client: LB95128 level: low sdg no.: LB95128
contract: lab code: CHEM case no.: LB95128 sas no.: LB95128
matrix: WATER sample id: J2695-07 client id: CS-DRUM-2MS
Percent Solids for Sample: 0 Spiked ID: J2695-07MS 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	0.076		0.046		0.04	75		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95128 level: low sdg no.: LB95128
contract: lab code: CHEM case no.: LB95128 sas no.: LB95128
matrix: WATER sample id: J2695-07 client id: CS-DRUM-2MSD
Percent Solids for Sample: 0 Spiked ID: J2695-07MSD 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	0.077		0.046		0.04	78		

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DUPLICATE SAMPLE SUMMARY

Client: LB95128 **Level:** LOW **SDG No.:** LB95128
Contract: **Lab Code:** CHEM **Case No.:** LB95128 **SAS No.:** LB95128
Matrix: Solid **Sample ID:** J2672-01 **Client ID:** BU-02-050318DUP
Percent Solids for Sample: 90.6 **Duplicate ID** J2672-01DUP **Percent Solids for Spike Sample:** 90.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.035	U	0.062	J	200.0		

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DUPLICATE SAMPLE SUMMARY

Client: LB95128 **Level:** LOW **SDG No.:** LB95128
Contract: **Lab Code:** CHEM **Case No.:** LB95128 **SAS No.:** LB95128
Matrix: Solid **Sample ID:** J2672-01MS **Client ID:** BU-02-050318MSD
Percent Solids for Sample: 90.6 **Duplicate ID** J2672-01MSD **Percent Solids for Spike Sample:** 90.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.1		2.1		0		



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DUPLICATE SAMPLE SUMMARY

Client: LB95128 **Level:** LOW **SDG No.:** LB95128
Contract: **Lab Code:** CHEM **Case No.:** LB95128 **SAS No.:** LB95128
Matrix: WATER **Sample ID:** J2695-07 **Client ID:** CS-DRUM-2DUP
Percent Solids for Sample: 0 **Duplicate ID** J2695-07DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.046		0.045		2		

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DUPLICATE SAMPLE SUMMARY

Client: LB95128 **Level:** LOW **SDG No.:** LB95128
Contract: **Lab Code:** CHEM **Case No.:** LB95128 **SAS No.:** LB95128
Matrix: WATER **Sample ID:** J2695-07MS **Client ID:** CS-DRUM-2MSD
Percent Solids for Sample: 0 **Duplicate ID** J2695-07MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.076		0.077		1		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95128

SDG No.: LB95128

Contract:

Lab Code: CHEM

Case No.: LB95128

SAS No.: LB95128

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB108927BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95128

SDG No.: LB95128

Contract:

Lab Code: CHEM

Case No.: LB95128

SAS No.: LB95128

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB108928BS Cyanide	mg/L	0.1	0.098		98	85 - 115	