

Daily Analysis Runlog For Sequence/QC Batch ID # LB94365

Review By		Review On				
SubDirectory		LB94365		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63362,WP63363,WP63364,WP63365,WP63366,WP63367,WP63368				
ICV Standard		WP63370				
CCV Standard		WP63369				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP63371,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	04/04/18 08:21		OK
2	5.0PPBCN	5.0PPBCN	CAL2	04/04/18 08:21		OK
3	10PPBCN	10PPBCN	CAL3	04/04/18 08:21		OK
4	50PPBCN	50PPBCN	CAL4	04/04/18 08:21		OK
5	100PPBCN	100PPBCN	CAL5	04/04/18 08:21		OK
6	250PPBCN	250PPBCN	CAL6	04/04/18 08:21		OK
7	500PPBCN	500PPBCN	CAL7	04/04/18 08:21		OK
8	ICV1	ICV1	ICV	04/04/18 11:21		OK
9	ICB1	ICB1	ICB	04/04/18 11:21		OK
10	CCV1	CCV1	CCV	04/04/18 11:21		OK
11	CCB1	CCB1	CCB	04/04/18 11:21		OK
12	PB107968BL	PB107968BL	MB	04/04/18 11:21		OK
13	J2197-03	DRUM-STONES	SAM	04/04/18 11:21		OK
14	J2197-03DUP	DRUM-STONESDUP	DUP	04/04/18 11:21		OK
15	J2197-05	SP	SAM	04/04/18 11:22		OK
16	J2199-02	S6-A	SAM	04/04/18 11:22		OK
17	J2207-06	SP-1	SAM	04/04/18 11:22		OK
18	J2209-02	OILY-DEBRIS	SAM	04/04/18 11:22		OK
19	J2211-01	DRUM-1-3-4-5-6	SAM	04/04/18 11:29		OK
20	J2211-03	DRUM-9	SAM	04/04/18 11:29		OK
21	J2212-06	SP-1-A	SAM	04/04/18 11:29		OK

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SubDirectory		LB94365		Test : Reactive Cyanide		
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ICV Standard		WP63370				
CCV Standard		WP63369				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP63371,WP59958,WP60878				
22	CCV2	CCV2	CCV	04/04/18 11:29		OK
23	CCB2	CCB2	CCB	04/04/18 11:29		OK
24	J2212-12	SP-1-B	SAM	04/04/18 11:29		OK
25	J2213-01	DRUM-1	SAM	04/04/18 11:29		OK
26	PB107967BL	PB107967BL	MB	04/04/18 11:29		OK
27	J2197-07	DRUM-WATER	SAM	04/04/18 11:29		OK
28	J2197-07DUP	DRUM-WATERDUP	DUP	04/04/18 11:29		OK
29	CCV3	CCV3	CCV	04/04/18 11:29		OK
30	CCB3	CCB3	CCB	04/04/18 11:32		OK



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Report of Analysis

Client:		Date Collected:	4/3/2018 12:00:00 AM
Project:	LB94365	Date Received:	4/3/2018 12:00:00 AM
Client Sample ID:	DRUM-STONES	SDG No.:	LB94365
Lab Sample ID:	J2197-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00018	U	1	0.025		0.05	mg/Kg	04/04/2018	04/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/3/2018 12:00:00 AM
Project:	LB94365	Date Received:	4/3/2018 12:00:00 AM
Client Sample ID:	SP	SDG No.:	LB94365
Lab Sample ID:	J2197-05	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00059	U	1	0.025		0.05	mg/Kg	04/04/2018	04/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/3/2018 12:00:00 AM
Project:	LB94365	Date Received:	4/3/2018 12:00:00 AM
Client Sample ID:	DRUM-WATER	SDG No.:	LB94365
Lab Sample ID:	J2197-07	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00074	U	1	0.0025		0.005	mg/L	04/04/2018	04/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/3/2018 12:00:00 AM
Project:	LB94365	Date Received:	4/3/2018 12:00:00 AM
Client Sample ID:	S6-A	SDG No.:	LB94365
Lab Sample ID:	J2199-02	Matrix:	Solid
Level (low/med):	low	% Solid:	88.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00017	U	1	0.025		0.05	mg/Kg	04/04/2018	04/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/3/2018 12:00:00 AM
Project:	LB94365	Date Received:	4/3/2018 12:00:00 AM
Client Sample ID:	SP-1	SDG No.:	LB94365
Lab Sample ID:	J2207-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0	U	1	0.025		0.05	mg/Kg	04/04/2018	04/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/3/2018 12:00:00 AM
Project:	LB94365	Date Received:	4/3/2018 12:00:00 AM
Client Sample ID:	OILY-DEBRIS	SDG No.:	LB94365
Lab Sample ID:	J2209-02	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00085	U	1	0.025		0.05	mg/Kg	04/04/2018	04/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/3/2018 12:00:00 AM
Project:	LB94365	Date Received:	4/3/2018 12:00:00 AM
Client Sample ID:	DRUM-1-3-4-5-6	SDG No.:	LB94365
Lab Sample ID:	J2211-01	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0037	U	1	0.025		0.05	mg/Kg	04/04/2018	04/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/3/2018 12:00:00 AM
Project:	LB94365	Date Received:	4/3/2018 12:00:00 AM
Client Sample ID:	DRUM-9	SDG No.:	LB94365
Lab Sample ID:	J2211-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0061	U	1	0.025		0.05	mg/Kg	04/04/2018	04/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/3/2018 12:00:00 AM
Project:	LB94365	Date Received:	4/3/2018 12:00:00 AM
Client Sample ID:	SP-1-A	SDG No.:	LB94365
Lab Sample ID:	J2212-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0045	U	1	0.025		0.05	mg/Kg	04/04/2018	04/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/3/2018 12:00:00 AM
Project:	LB94365	Date Received:	4/3/2018 12:00:00 AM
Client Sample ID:	SP-1-B	SDG No.:	LB94365
Lab Sample ID:	J2212-12	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0032	U	1	0.025		0.05	mg/Kg	04/04/2018	04/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/3/2018 12:00:00 AM
Project:	LB94365	Date Received:	4/3/2018 12:00:00 AM
Client Sample ID:	DRUM-1	SDG No.:	LB94365
Lab Sample ID:	J2213-01	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.018	U	1	0.025		0.05	mg/Kg	04/04/2018	04/04/2018	9012B



Report of Analysis

Client:		Date Collected:	4/3/2018 12:00:00 AM
Project:	LB94365	Date Received:	4/3/2018 12:00:00 AM
Client Sample ID:	DRUM-1	SDG No.:	LB94365
Lab Sample ID:	J2213-01	Matrix:	Solid
Level (low/med):	low	% Solid:	100

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



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94365

SDG No.: LB94365

Contract: _____ Lab Code: CHEM

Case No.: LB94365

SAS No.: LB94365

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	Reactive Cyanide	0.097	0.099	98		85 - 115		04/04/2018	11:21	LB94365



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94365

SDG No.: LB94365

Contract: _____ Lab Code: CHEM

Case No.: LB94365

SAS No.: LB94365

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	Reactive Cyanide	0.24	0.25	96		90 - 110		04/04/2018	11:21	LB94365
CCV2	Reactive Cyanide	0.24	0.25	96		90 - 110		04/04/2018	11:29	LB94365
CCV3	Reactive Cyanide	0.24	0.25	96		90 - 110		04/04/2018	11:29	LB94365



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94365 **SDG No.:** LB94365
Contract: **Lab Code:** CHEM **Case No.:** LB94365 **SAS No.:** LB94365

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00029	+/-0.005	U		0.005		04/04/2018	11:21	LB94365

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00017	+/-0.005	U		0.005		04/04/2018	11:21	LB94365
CCB2	Reactive Cyanide	0.0011	+/-0.005	U		0.005		04/04/2018	11:29	LB94365
CCB3	Reactive Cyanide	-0.00026	+/-0.005	U		0.005		04/04/2018	11:32	LB94365



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94365

SDG No.: LB94365

Contract: Lab Code: CHEM

Case No.: LB94365

SAS No.: LB94365

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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PREPARATION BLANK SUMMARY

Client: LB94365

SDG No.: LB94365

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB107967BL	Reactive Cyanide	WATER		Batch Number:		PB107967		Prep Date:	04/04/2018	
		0	<0.005	U		0.005		04/04/2018	11:29	LB94365
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB107968BL	Reactive Cyanide	SOLID		Batch Number:		PB107968		Prep Date:	04/04/2018	
		-0.00029	<0.05	U		0.05		04/04/2018	11:21	LB94365

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DUPLICATE SAMPLE SUMMARY

Client: LB94365 **Level:** LOW **SDG No.:** LB94365
Contract: **Lab Code:** CHEM **Case No.:** LB94365 **SAS No.:** LB94365
Matrix: Solid **Sample ID:** J2197-03 **Client ID:** DRUM-STONESDUP
Percent Solids for Sample: 100 **Duplicate ID** J2197-03DUP **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	-0.0011	U			



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DUPLICATE SAMPLE SUMMARY

Client: LB94365 Level: LOW SDG No.: LB94365
Contract: _____ Lab Code: CHEM Case No.: LB94365 SAS No.: LB94365
Matrix: WATER Sample ID: J2197-07 Client ID: DRUM-WATERDUP
Percent Solids for Sample: 0 Duplicate ID J2197-07DUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/L	20	0.0025	U	0.0013	U			