

Daily Analysis Runlog For Sequence/QC Batch ID # LB95455

Review By		Review On				
SubDirectory		LB95455		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64604,WP64605,WP64606,WP64607,WP64608,WP64609,WP64610				
ICV Standard		WP64612				
CCV Standard		WP64611				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP64613,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/18/18 10:40		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/18/18 10:40		OK
3	10PPBCN	10PPBCN	CAL3	05/18/18 10:40		OK
4	50PPBCN	50PPBCN	CAL4	05/18/18 10:40		OK
5	100PPBCN	100PPBCN	CAL5	05/18/18 10:40		OK
6	250PPBCN	250PPBCN	CAL6	05/18/18 10:40		OK
7	500PPBCN	500PPBCN	CAL7	05/18/18 10:40		OK
8	ICV1	ICV1	ICV	05/18/18 11:28		OK
9	ICB1	ICB1	ICB	05/18/18 11:28		OK
10	CCV1	CCV1	CCV	05/18/18 11:28		OK
11	CCB1	CCB1	CCB	05/18/18 11:28		OK
12	PB109423BL	PB109423BL	MB	05/18/18 11:28		OK
13	J2673-02	JC-03-051718-A	SAM	05/18/18 11:28		OK
14	J2673-02DUP	JC-03-051718-ADUP	DUP	05/18/18 11:28		OK
15	J2673-04	JC-03-051718-B	SAM	05/18/18 11:28		OK
16	J2673-06	JC-03-051718-C	SAM	05/18/18 11:28		OK
17	J2673-08	JC-03-051718-D	SAM	05/18/18 11:28		OK
18	J2673-10	JC-03-051718-E	SAM	05/18/18 11:28		OK
19	J2673-12	JC-03-051718-F	SAM	05/18/18 11:36		OK
20	J2673-14	JC-03-051718-G	SAM	05/18/18 11:36		OK
21	J2673-16	JC-03-051718-H	SAM	05/18/18 11:36		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB95455

Review By		Review On				
SubDirectory		LB95455		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64604,WP64605,WP64606,WP64607,WP64608,WP64609,WP64610				
ICV Standard		WP64612				
CCV Standard		WP64611				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP64613,WP59958,WP60878				
22	CCV2	CCV2	CCV	05/18/18 11:36		OK
23	CCB2	CCB2	CCB	05/18/18 11:36		OK
24	J2677-06	OK-02-051718	SAM	05/18/18 11:36		OK
25	J2971-02	TP6-WC-1	SAM	05/18/18 11:36		OK
26	J2971-04	TP6-WC-2	SAM	05/18/18 11:36		OK
27	J2971-06	TP6-WC-3	SAM	05/18/18 11:36		OK
28	J2971-08	TP6-WC-4	SAM	05/18/18 11:36		OK
29	J2971-10	TP6-WC-5	SAM	05/18/18 11:36		OK
30	J3004-02	TP-10-WC-1	SAM	05/18/18 11:41		OK
31	J3004-04	TP-10-WC-2	SAM	05/18/18 11:41		OK
32	J3004-06	TP-10-WC-3	SAM	05/18/18 11:41		OK
33	CCV3	CCV3	CCV	05/18/18 11:41		OK
34	CCB3	CCB3	CCB	05/18/18 11:41		OK

Report of Analysis

Client:		Date Collected:	5/17/2018 12:00:00 AM
Project:	LB95455	Date Received:	5/17/2018 12:00:00 AM
Client Sample ID:	JC-03-051718-A	SDG No.:	LB95455
Lab Sample ID:	J2673-02	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	-0.00029	U	1	0.025		0.05	mg/Kg	05/18/2018	05/18/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/17/2018 12:00:00 AM
Project:	LB95455	Date Received:	5/17/2018 12:00:00 AM
Client Sample ID:	JC-03-051718-B	SDG No.:	LB95455
Lab Sample ID:	J2673-04	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	-0.00042	U	1	0.025		0.05	mg/Kg	05/18/2018	05/18/2018	9012B

Report of Analysis

Client:		Date Collected:	5/17/2018 12:00:00 AM
Project:	LB95455	Date Received:	5/17/2018 12:00:00 AM
Client Sample ID:	JC-03-051718-C	SDG No.:	LB95455
Lab Sample ID:	J2673-06	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	05/18/2018	05/18/2018	9012B

Report of Analysis

Client:		Date Collected:	5/17/2018 12:00:00 AM
Project:	LB95455	Date Received:	5/17/2018 12:00:00 AM
Client Sample ID:	JC-03-051718-D	SDG No.:	LB95455
Lab Sample ID:	J2673-08	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	-0.0064	U	1	0.025		0.05	mg/Kg	05/18/2018	05/18/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/17/2018 12:00:00 AM
Project:	LB95455	Date Received:	5/17/2018 12:00:00 AM
Client Sample ID:	JC-03-051718-E	SDG No.:	LB95455
Lab Sample ID:	J2673-10	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	-0.005	U	1	0.025		0.05	mg/Kg	05/18/2018	05/18/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/17/2018 12:00:00 AM
Project:	LB95455	Date Received:	5/17/2018 12:00:00 AM
Client Sample ID:	JC-03-051718-F	SDG No.:	LB95455
Lab Sample ID:	J2673-12	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	05/18/2018	05/18/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/17/2018 12:00:00 AM
Project:	LB95455	Date Received:	5/17/2018 12:00:00 AM
Client Sample ID:	JC-03-051718-G	SDG No.:	LB95455
Lab Sample ID:	J2673-14	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	-0.0012	U	1	0.025		0.05	mg/Kg	05/18/2018	05/18/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/17/2018 12:00:00 AM
Project:	LB95455	Date Received:	5/17/2018 12:00:00 AM
Client Sample ID:	JC-03-051718-H	SDG No.:	LB95455
Lab Sample ID:	J2673-16	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	-0.0036	U	1	0.025		0.05	mg/Kg	05/18/2018	05/18/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/17/2018 12:00:00 AM
Project:	LB95455	Date Received:	5/17/2018 12:00:00 AM
Client Sample ID:	OK-02-051718	SDG No.:	LB95455
Lab Sample ID:	J2677-06	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	-0.011	U	1	0.025		0.05	mg/Kg	05/18/2018	05/18/2018	9012B

Report of Analysis

Client:		Date Collected:	5/16/2018 12:00:00 AM
Project:	LB95455	Date Received:	5/17/2018 12:00:00 AM
Client Sample ID:	TP6-WC-1	SDG No.:	LB95455
Lab Sample ID:	J2971-02	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	-0.0029	U	1	0.025		0.05	mg/Kg	05/18/2018	05/18/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/16/2018 12:00:00 AM
Project:	LB95455	Date Received:	5/17/2018 12:00:00 AM
Client Sample ID:	TP6-WC-2	SDG No.:	LB95455
Lab Sample ID:	J2971-04	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	-0.0036	U	1	0.025		0.05	mg/Kg	05/18/2018	05/18/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/16/2018 12:00:00 AM
Project:	LB95455	Date Received:	5/17/2018 12:00:00 AM
Client Sample ID:	TP6-WC-3	SDG No.:	LB95455
Lab Sample ID:	J2971-06	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	-0.0024	U	1	0.025		0.05	mg/Kg	05/18/2018	05/18/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/16/2018 12:00:00 AM
Project:	LB95455	Date Received:	5/17/2018 12:00:00 AM
Client Sample ID:	TP6-WC-4	SDG No.:	LB95455
Lab Sample ID:	J2971-08	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	-0.0054	U	1	0.025		0.05	mg/Kg	05/18/2018	05/18/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/16/2018 12:00:00 AM
Project:	LB95455	Date Received:	5/17/2018 12:00:00 AM
Client Sample ID:	TP6-WC-5	SDG No.:	LB95455
Lab Sample ID:	J2971-10	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	-0.0073	U	1	0.025		0.05	mg/Kg	05/18/2018	05/18/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/17/2018 12:00:00 AM
Project:	LB95455	Date Received:	5/17/2018 12:00:00 AM
Client Sample ID:	TP-10-WC-1	SDG No.:	LB95455
Lab Sample ID:	J3004-02	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	-0.0051	U	1	0.025		0.05	mg/Kg	05/18/2018	05/18/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/17/2018 12:00:00 AM
Project:	LB95455	Date Received:	5/17/2018 12:00:00 AM
Client Sample ID:	TP-10-WC-2	SDG No.:	LB95455
Lab Sample ID:	J3004-04	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	-0.0046	U	1	0.025		0.05	mg/Kg	05/18/2018	05/18/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/17/2018 12:00:00 AM
Project:	LB95455	Date Received:	5/17/2018 12:00:00 AM
Client Sample ID:	TP-10-WC-3	SDG No.:	LB95455
Lab Sample ID:	J3004-06	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	-0.0027	U	1	0.025		0.05	mg/Kg	05/18/2018	05/18/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/17/2018 12:00:00 AM
Project:	LB95455	Date Received:	5/17/2018 12:00:00 AM
Client Sample ID:	TP-10-WC-3	SDG No.:	LB95455
Lab Sample ID:	J3004-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB95455

SDG No.: LB95455

Contract: _____

Lab Code: CHEM

Case No.: LB95455

SAS No.: LB95455

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		05/18/2018	11:28	lb95455



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95455

SDG No.: LB95455

Contract: _____ Lab Code: CHEM

Case No.: LB95455

SAS No.: LB95455

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		05/18/2018	11:28	lb95455
CCV2	Reactive Cyanide	0.25	0.25	100		90 - 110		05/18/2018	11:36	lb95455
CCV3	Reactive Cyanide	0.26	0.25	104		90 - 110		05/18/2018	11:41	lb95455



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95455

SDG No.: LB95455

Contract:

Lab Code: CHEM

Case No.: LB95455

SAS No.: LB95455

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00017	+/-0.005	U		0.005		05/18/2018	11:28	lb95455

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.0001	+/-0.005	U		0.005		05/18/2018	11:28	lb95455
CCB2	Reactive Cyanide	-0.00068	+/-0.005	U		0.005		05/18/2018	11:36	lb95455
CCB3	Reactive Cyanide	0.00041	+/-0.005	U		0.005		05/18/2018	11:41	lb95455



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95455

SDG No.: LB95455

Contract: Lab Code: CHEM

Case No.: LB95455

SAS No.: LB95455

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: LB95455

SDG No.: LB95455

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
PB109423BL	Reactive Cyanide	SOLID -0.0068	<0.05	Batch Number: U		PB109423 0.05		Prep Date: 05/18/2018	05/18/2018 11:28	lb95455

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95455 **Level:** LOW **SDG No.:** LB95455
Contract: **Lab Code:** CHEM **Case No.:** LB95455 **SAS No.:** LB95455
Matrix: Solid **Sample ID:** J2673-02 **Client ID:** JC-03-051718-ADUP
Percent Solids for Sample: 100 **Duplicate ID** J2673-02DUP **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	-0.0015	U			