

Daily Analysis Runlog For Sequence/QC Batch ID # LB95302

Review By

Review On

SubDirectory

LB95302

Test :

Reactive Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP64424,WP64425,WP64426,WP64427,WP64429,WP64430,WP64431				
ICV Standard		WP64434				
CCV Standard		WP64433				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP64435,WP59958,WP60878				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/11/18 12:37		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/11/18 12:37		OK
3	10PPBCN	10PPBCN	CAL3	05/11/18 12:37		OK
4	50PPBCN	50PPBCN	CAL4	05/11/18 12:37		OK
5	100PPBCN	100PPBCN	CAL5	05/11/18 12:37		OK
6	250PPBCN	250PPBCN	CAL6	05/11/18 12:37		OK
7	500PPBCN	500PPBCN	CAL7	05/11/18 12:37		OK
8	ICV1	ICV1	ICV	05/11/18 13:27		OK
9	ICB1	ICB1	ICB	05/11/18 13:28		OK
10	CCV1	CCV1	CCV	05/11/18 13:28		OK
11	CCB1	CCB1	CCB	05/11/18 13:28		OK
12	PB109173BL	PB109173BL	MB	05/11/18 13:28		OK
13	J2675-04	HR-06-051018-A	SAM	05/11/18 13:28		OK
14	J2675-04DUP	HR-06-051018-ADUP	DUP	05/11/18 13:28		OK
15	J2675-06	HR-06-051018-B	SAM	05/11/18 13:28		OK
16	J2675-08	HR-06-051018-C	SAM	05/11/18 13:28		OK
17	J2859-04	RB-44791RT-RB-471	SAM	05/11/18 13:28		OK
18	J2862-03	RB-27681RT	SAM	05/11/18 13:28		OK
19	J2868-04	PS-RO-VNJ-227	SAM	05/11/18 13:35		OK
20	J2868-08	PS-RO-327	SAM	05/11/18 13:35		OK
21	J2868-12	PS-VNJ-238	SAM	05/11/18 13:35		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB95302

Review By		Review On				
SubDirectory		LB95302		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64424,WP64425,WP64426,WP64427,WP64429,WP64430,WP64431				
ICV Standard		WP64434				
CCV Standard		WP64433				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP64435,WP59958,WP60878				
22	CCV2	CCV2	CCV	05/11/18 13:35		OK
23	CCB2	CCB2	CCB	05/11/18 13:35		OK
24	J2870-04	CONCRETE-RUBBL	SAM	05/11/18 13:35		OK
25	J2870-08	CONCRETE-RUBBL	SAM	05/11/18 13:35		OK
26	J2870-13	SP-A	SAM	05/11/18 13:35		OK
27	J2870-17	SP-A2	SAM	05/11/18 13:35		OK
28	J2870-22	SP-B	SAM	05/11/18 13:35		OK
29	J2876-03	TP-1B	SAM	05/11/18 13:40		OK
30	J2876-06	TP-10	SAM	05/11/18 13:40		OK
31	J2876-09	TP-11A	SAM	05/11/18 13:40		OK
32	J2876-12	TP-11B	SAM	05/11/18 13:40		OK
33	J2872-03	237-COMP-SL	SAM	05/11/18 13:56		OK
34	CCV3	CCV3	CCV	05/11/18 13:56		OK
35	CCB3	CCB3	CCB	05/11/18 13:56		OK
36	PB109182BL	PB109182BL	MB	05/11/18 14:12		OK
37	J2876-18	TP-1	SAM	05/11/18 14:12		OK
38	J2876-18DUP	TP-1DUP	DUP	05/11/18 14:12		OK
39	CCV4	CCV4	CCV	05/11/18 14:12		OK
40	CCB4	CCB4	CCB	05/11/18 14:12		OK



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Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95302	Date Received:	5/10/2018 12:00:00 AM
Client Sample ID:	HR-06-051018-A	SDG No.:	LB95302
Lab Sample ID:	J2675-04	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	-0.0027	U	1	0.025		0.05	mg/Kg	05/11/2018	05/11/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95302	Date Received:	5/10/2018 12:00:00 AM
Client Sample ID:	HR-06-051018-B	SDG No.:	LB95302
Lab Sample ID:	J2675-06	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	-0.0026	U	1	0.025		0.05	mg/Kg	05/11/2018	05/11/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95302	Date Received:	5/10/2018 12:00:00 AM
Client Sample ID:	HR-06-051018-C	SDG No.:	LB95302
Lab Sample ID:	J2675-08	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	-0.0075	U	1	0.025		0.05	mg/Kg	05/11/2018	05/11/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95302	Date Received:	5/10/2018 12:00:00 AM
Client Sample ID:	RB-44791RT-RB-47188RT	SDG No.:	LB95302
Lab Sample ID:	J2859-04	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	-0.0018	U	1	0.025		0.05	mg/Kg	05/11/2018	05/11/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95302	Date Received:	5/10/2018 12:00:00 AM
Client Sample ID:	RB-27681RT	SDG No.:	LB95302
Lab Sample ID:	J2862-03	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	-0.0075	U	1	0.025		0.05	mg/Kg	05/11/2018	05/11/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95302	Date Received:	5/10/2018 12:00:00 AM
Client Sample ID:	PS-RO-VNJ-227	SDG No.:	LB95302
Lab Sample ID:	J2868-04	Matrix:	Solid
Level (low/med):	low	% Solid:	80.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0049	U	1	0.025		0.05	mg/Kg	05/11/2018	05/11/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95302	Date Received:	5/10/2018 12:00:00 AM
Client Sample ID:	PS-RO-327	SDG No.:	LB95302
Lab Sample ID:	J2868-08	Matrix:	Solid
Level (low/med):	low	% Solid:	84.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0035	U	1	0.025		0.05	mg/Kg	05/11/2018	05/11/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95302	Date Received:	5/10/2018 12:00:00 AM
Client Sample ID:	PS-VNJ-238	SDG No.:	LB95302
Lab Sample ID:	J2868-12	Matrix:	Solid
Level (low/med):	low	% Solid:	72.4

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	05/11/2018	05/11/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95302	Date Received:	5/10/2018 12:00:00 AM
Client Sample ID:	CONCRETE-RUBBLE-PILE-A	SDG No.:	LB95302
Lab Sample ID:	J2870-04	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	-0.0054	U	1	0.025		0.05	mg/Kg	05/11/2018	05/11/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95302	Date Received:	5/10/2018 12:00:00 AM
Client Sample ID:	CONCRETE-RUBBLE-PILE-B	SDG No.:	LB95302
Lab Sample ID:	J2870-08	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	-0.0058	U	1	0.025		0.05	mg/Kg	05/11/2018	05/11/2018	9012B

Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95302	Date Received:	5/10/2018 12:00:00 AM
Client Sample ID:	SP-A	SDG No.:	LB95302
Lab Sample ID:	J2870-13	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	-0.0016	U	1	0.025		0.05	mg/Kg	05/11/2018	05/11/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95302	Date Received:	5/10/2018 12:00:00 AM
Client Sample ID:	SP-A2	SDG No.:	LB95302
Lab Sample ID:	J2870-17	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	05/11/2018	05/11/2018	9012B

Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95302	Date Received:	5/10/2018 12:00:00 AM
Client Sample ID:	SP-B	SDG No.:	LB95302
Lab Sample ID:	J2870-22	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	-0.00089	U	1	0.025		0.05	mg/Kg	05/11/2018	05/11/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/9/2018 12:00:00 AM
Project:	LB95302	Date Received:	5/10/2018 12:00:00 AM
Client Sample ID:	237-COMP-SL	SDG No.:	LB95302
Lab Sample ID:	J2872-03	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	-0.0069	U	1	0.025		0.05	mg/Kg	05/11/2018	05/11/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95302	Date Received:	5/10/2018 12:00:00 AM
Client Sample ID:	TP-1B	SDG No.:	LB95302
Lab Sample ID:	J2876-03	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	-0.0062	U	1	0.025		0.05	mg/Kg	05/11/2018	05/11/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95302	Date Received:	5/10/2018 12:00:00 AM
Client Sample ID:	TP-10	SDG No.:	LB95302
Lab Sample ID:	J2876-06	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	-0.003	U	1	0.025		0.05	mg/Kg	05/11/2018	05/11/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95302	Date Received:	5/10/2018 12:00:00 AM
Client Sample ID:	TP-11A	SDG No.:	LB95302
Lab Sample ID:	J2876-09	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	-0.0014	U	1	0.025		0.05	mg/Kg	05/11/2018	05/11/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95302	Date Received:	5/10/2018 12:00:00 AM
Client Sample ID:	TP-11B	SDG No.:	LB95302
Lab Sample ID:	J2876-12	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	-0.0016	U	1	0.025		0.05	mg/Kg	05/11/2018	05/11/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95302	Date Received:	5/10/2018 12:00:00 AM
Client Sample ID:	TP-1	SDG No.:	LB95302
Lab Sample ID:	J2876-18	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	-0.0001	U	1	0.0025		0.005	mg/L	05/11/2018	05/11/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95302	Date Received:	5/10/2018 12:00:00 AM
Client Sample ID:	TP-1	SDG No.:	LB95302
Lab Sample ID:	J2876-18	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: LB95302

SDG No.: LB95302

Contract: _____ Lab Code: CHEM

Case No.: LB95302

SAS No.: LB95302

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	0.094	0.099	94.9		85 - 115		05/11/2018	13:27	LB95302



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95302

SDG No.: LB95302

Contract: _____ Lab Code: CHEM

Case No.: LB95302

SAS No.: LB95302

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		05/11/2018	13:28	LB95302
CCV2	Reactive Cyanide	0.24	0.25	96		90 - 110		05/11/2018	13:35	LB95302
CCV3	Reactive Cyanide	0.26	0.25	104		90 - 110		05/11/2018	13:56	LB95302
CCV4	Reactive Cyanide	0.26	0.25	104		90 - 110		05/11/2018	14:12	LB95302



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95302 **SDG No.:** LB95302
Contract: **Lab Code:** CHEM **Case No.:** LB95302 **SAS No.:** LB95302

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00014	+/-0.005	U		0.005		05/11/2018	13:28	LB95302

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.0003	+/-0.005	U		0.005		05/11/2018	13:28	LB95302
CCB2	Reactive Cyanide	-0.00064	+/-0.005	U		0.005		05/11/2018	13:35	LB95302
CCB3	Reactive Cyanide	-0.00011	+/-0.005	U		0.005		05/11/2018	13:56	LB95302
CCB4	Reactive Cyanide	-0.00015	+/-0.005	U		0.005		05/11/2018	14:12	LB95302



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95302

SDG No.: LB95302

Contract: Lab Code: CHEM

Case No.: LB95302

SAS No.: LB95302

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: LB95302

SDG No.: LB95302

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
PB109173BL	Reactive Cyanide	SOLID		Batch Number:		PB109173		Prep Date:	05/11/2018	
		-0.0024	<0.05	U		0.05		05/11/2018	13:28	LB95302
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB109182BL	Reactive Cyanide	WATER		Batch Number:		PB109182		Prep Date:	05/11/2018	
		-0.00029	<0.005	U		0.005		05/11/2018	14:12	LB95302

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95302 **Level:** LOW **SDG No.:** LB95302
Contract: **Lab Code:** CHEM **Case No.:** LB95302 **SAS No.:** LB95302
Matrix: Solid **Sample ID:** J2675-04 **Client ID:** HR-06-051018-ADUP
Percent Solids for Sample: 100 **Duplicate ID** J2675-04DUP **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	-0.0037	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95302 **Level:** LOW **SDG No.:** LB95302
Contract: **Lab Code:** CHEM **Case No.:** LB95302 **SAS No.:** LB95302
Matrix: WATER **Sample ID:** J2876-18 **Client ID:** TP-1DUP
Percent Solids for Sample: 0 **Duplicate ID** J2876-18DUP **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	0.00011	U			