

Daily Analysis Runlog For Sequence/QC Batch ID # LB95189

Review By

Review On

SubDirectory

LB95189

Test :

Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP64301,WP64302,WP64304,WP64305,WP64306,WP64307,WP64308
ICV Standard	WP64310
CCV Standard	WP64309
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP64311,,WP59958,WP60878

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/08/18 09:51		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/08/18 09:51		OK
3	10PPBCN	10PPBCN	CAL3	05/08/18 09:51		OK
4	50PPBCN	50PPBCN	CAL4	05/08/18 09:51		OK
5	100PPBCN	100PPBCN	CAL5	05/08/18 09:51		OK
6	250PPBCN	250PPBCN	CAL6	05/08/18 09:51		OK
7	500PPBCN	500PPBCN	CAL7	05/08/18 09:51		OK
8	ICV1	ICV1	ICV	05/08/18 12:15		OK
9	ICB1	ICB1	ICB	05/08/18 12:15		OK
10	CCV1	CCV1	CCV	05/08/18 12:15		OK
11	CCB1	CCB1	CCB	05/08/18 12:15		OK
12	PB109018BL	PB109018BL	MB	05/08/18 12:15		OK
13	J2671-02	AU-02-050718-A	SAM	05/08/18 12:15		OK
14	J2671-02DUP	AU-02-050718-ADUP	DUP	05/08/18 12:15		OK
15	J2671-04	AU-02-050718-B	SAM	05/08/18 12:15		OK
16	J2674-02	HD-02-050718	SAM	05/08/18 12:15		OK
17	J2676-02	CL-01-050718-A	SAM	05/08/18 12:15		OK
18	J2676-04	CL-01-050718-B	SAM	05/08/18 12:15		OK
19	J2676-06	CL-01-050718-C	SAM	05/08/18 12:22		OK
20	J2676-10	CL-01-050718-E	SAM	05/08/18 12:22		OK
21	CCV2	CCV2	CCV	05/08/18 12:22		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB95189

Review By		Review On				
SubDirectory		LB95189		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64301,WP64302,WP64304,WP64305,WP64306,WP64307,WP64308				
ICV Standard		WP64310				
CCV Standard		WP64309				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP64311,,WP59958,WP60878				
22	CCB2	CCB2	CCB	05/08/18 12:22		OK
23	J2677-04	OK-01-050718	SAM	05/08/18 12:22		OK
24	J2759-06	TP-2A-COMP	SAM	05/08/18 12:22		OK
25	J2759-09	TP-2B-COMP	SAM	05/08/18 12:22		OK
26	J2780-06	SOIL	SAM	05/08/18 12:22		OK
27	J2783-03	BS-CONCRETE-RO	SAM	05/08/18 12:22		OK
28	J2783-06	BS-OILY-STONE-RO	SAM	05/08/18 12:22		OK
29	J2784-02	RO-160	SAM	05/08/18 12:27		OK
30	PB109027BL	PB109027BL	MB	05/08/18 12:27		OK
31	J2787-02	V23608-VB102	SAM	05/08/18 12:27		OK
32	J2787-02DUP	V23608-VB102DUP	DUP	05/08/18 12:27		OK
33	CCV3	CCV3	CCV	05/08/18 12:27		OK
34	CCB3	CCB3	CCB	05/08/18 12:27		OK
35	J2676-08	CL-01-050718-D	SAM	05/08/18 12:44		OK
36	CCV4	CCV4	CCV	05/08/18 12:44		OK
37	CCB4	CCB4	CCB	05/08/18 12:44		OK



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Report of Analysis

Client:		Date Collected:	5/7/2018 12:00:00 AM
Project:	LB95189	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	AU-02-050718-A	SDG No.:	LB95189
Lab Sample ID:	J2671-02	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	0.0013	U	1	0.025		0.05	mg/Kg	05/08/2018	05/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/7/2018 12:00:00 AM
Project:	LB95189	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	AU-02-050718-B	SDG No.:	LB95189
Lab Sample ID:	J2671-04	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	-0.0015	U	1	0.025		0.05	mg/Kg	05/08/2018	05/08/2018	9012B

Report of Analysis

Client:		Date Collected:	5/7/2018 12:00:00 AM
Project:	LB95189	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	HD-02-050718	SDG No.:	LB95189
Lab Sample ID:	J2674-02	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	-0.0068	U	1	0.025		0.05	mg/Kg	05/08/2018	05/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/7/2018 12:00:00 AM
Project:	LB95189	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	CL-01-050718-A	SDG No.:	LB95189
Lab Sample ID:	J2676-02	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	-0.0065	U	1	0.025		0.05	mg/Kg	05/08/2018	05/08/2018	9012B

Report of Analysis

Client:		Date Collected:	5/7/2018 12:00:00 AM
Project:	LB95189	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	CL-01-050718-B	SDG No.:	LB95189
Lab Sample ID:	J2676-04	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	-0.0034	U	1	0.025		0.05	mg/Kg	05/08/2018	05/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/7/2018 12:00:00 AM
Project:	LB95189	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	CL-01-050718-C	SDG No.:	LB95189
Lab Sample ID:	J2676-06	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	-0.0071	U	1	0.025		0.05	mg/Kg	05/08/2018	05/08/2018	9012B

Report of Analysis

Client:		Date Collected:	5/7/2018 12:00:00 AM
Project:	LB95189	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	CL-01-050718-D	SDG No.:	LB95189
Lab Sample ID:	J2676-08	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	-0.0033	U	1	0.025		0.05	mg/Kg	05/08/2018	05/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/7/2018 12:00:00 AM
Project:	LB95189	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	CL-01-050718-E	SDG No.:	LB95189
Lab Sample ID:	J2676-10	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	-0.0036	U	1	0.025		0.05	mg/Kg	05/08/2018	05/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/7/2018 12:00:00 AM
Project:	LB95189	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	OK-01-050718	SDG No.:	LB95189
Lab Sample ID:	J2677-04	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	-0.0028	U	1	0.025		0.05	mg/Kg	05/08/2018	05/08/2018	9012B

Report of Analysis

Client:		Date Collected:	5/4/2018 12:00:00 AM
Project:	LB95189	Date Received:	5/4/2018 12:00:00 AM
Client Sample ID:	TP-2A-COMP	SDG No.:	LB95189
Lab Sample ID:	J2759-06	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	-0.0053	U	1	0.025		0.05	mg/Kg	05/08/2018	05/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/4/2018 12:00:00 AM
Project:	LB95189	Date Received:	5/4/2018 12:00:00 AM
Client Sample ID:	TP-2B-COMP	SDG No.:	LB95189
Lab Sample ID:	J2759-09	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	-0.0044	U	1	0.025		0.05	mg/Kg	05/08/2018	05/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/7/2018 12:00:00 AM
Project:	LB95189	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	SOIL	SDG No.:	LB95189
Lab Sample ID:	J2780-06	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	-0.0039	U	1	0.025		0.05	mg/Kg	05/08/2018	05/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/7/2018 12:00:00 AM
Project:	LB95189	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	BS-CONCRETE-RO-277	SDG No.:	LB95189
Lab Sample ID:	J2783-03	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	0.0016	U	1	0.025		0.05	mg/Kg	05/08/2018	05/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/7/2018 12:00:00 AM
Project:	LB95189	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	BS-OILY-STONE-RO-208	SDG No.:	LB95189
Lab Sample ID:	J2783-06	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	-0.0082	U	1	0.025		0.05	mg/Kg	05/08/2018	05/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/7/2018 12:00:00 AM
Project:	LB95189	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	RO-160	SDG No.:	LB95189
Lab Sample ID:	J2784-02	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	-0.0072	U	1	0.025		0.05	mg/Kg	05/08/2018	05/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/7/2018 12:00:00 AM
Project:	LB95189	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	V23608-VB102	SDG No.:	LB95189
Lab Sample ID:	J2787-02	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	-0.00037	U	1	0.0025		0.005	mg/L	05/08/2018	05/08/2018	9012B



Report of Analysis

Client:		Date Collected:	5/7/2018 12:00:00 AM
Project:	LB95189	Date Received:	5/7/2018 12:00:00 AM
Client Sample ID:	V23608-VB102	SDG No.:	LB95189
Lab Sample ID:	J2787-02	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: LB95189

SDG No.: LB95189

Contract: _____ Lab Code: CHEM

Case No.: LB95189

SAS No.: LB95189

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		05/08/2018	12:15	lb95189
CCV2	Reactive Cyanide	0.24	0.25	96		90 - 110		05/08/2018	12:22	lb95189
CCV3	Reactive Cyanide	0.25	0.25	100		90 - 110		05/08/2018	12:27	lb95189
CCV4	Reactive Cyanide	0.26	0.25	104		90 - 110		05/08/2018	12:44	lb95189



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95189

SDG No.: LB95189

Contract:

Lab Code: CHEM

Case No.: LB95189

SAS No.: LB95189

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.00016	+/-0.005	U		0.005		05/08/2018	12:15	1b95189



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95189

SDG No.: LB95189

Contract:

Lab Code: CHEM

Case No.: LB95189

SAS No.: LB95189

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		05/08/2018	12:15	lb95189
CCB2	Reactive Cyanide	0.0001	+/-0.005	U		0.005		05/08/2018	12:22	lb95189
CCB3	Reactive Cyanide	-0.00059	+/-0.005	U		0.005		05/08/2018	12:27	lb95189
CCB4	Reactive Cyanide	0	+/-0.005	U		0.005		05/08/2018	12:44	lb95189



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95189

SDG No.: LB95189

Contract: Lab Code: CHEM

Case No.: LB95189

SAS No.: LB95189

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: LB95189

SDG No.: LB95189

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
PB109018BL	Reactive Cyanide	SOLID		Batch Number:		PB109018		Prep Date:	05/08/2018	
		-0.0016	<0.05	U		0.05		05/08/2018	12:15	lb95189
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB109027BL	Reactive Cyanide	WATER		Batch Number:		PB109027		Prep Date:	05/08/2018	
		-0.00056	<0.005	U		0.005		05/08/2018	12:27	lb95189

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95189 **Level:** LOW **SDG No.:** LB95189
Contract: **Lab Code:** CHEM **Case No.:** LB95189 **SAS No.:** LB95189
Matrix: Solid **Sample ID:** J2671-02 **Client ID:** AU-02-050718-ADUP
Percent Solids for Sample: 100 **Duplicate ID** J2671-02DUP **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	-0.0013	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95189 **Level:** LOW **SDG No.:** LB95189
Contract: _____ **Lab Code:** CHEM **Case No.:** LB95189 **SAS No.:** LB95189
Matrix: WATER **Sample ID:** J2787-02 **Client ID:** V23608-VB102DUP
Percent Solids for Sample: 0 **Duplicate ID** J2787-02DUP **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	-0.0002	U			