

Daily Analysis Runlog For Sequence/QC Batch ID # LB93761

Review By		Review On				
SubDirectory		LB93761		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP62544,WP62545,WP62546,WP62547,WP62548,WP62549,WP62550				
ICV Standard		W1542				
CCV Standard		WP62551				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62553,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/08/18 11:24		OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/08/18 11:24		OK
3	10PPBCN	10PPBCN	CAL3	03/08/18 11:24		OK
4	50PPBCN	50PPBCN	CAL4	03/08/18 11:24		OK
5	100PPBCN	100PPBCN	CAL5	03/08/18 11:24		OK
6	250PPBCN	250PPBCN	CAL6	03/08/18 11:24		OK
7	500PPBCN	500PPBCN	CAL7	03/08/18 11:24		OK
8	ICV1	ICV1	ICV	03/08/18 11:54		OK
9	ICB1	ICB1	ICB	03/08/18 11:54		OK
10	CCV1	CCV1	CCV	03/08/18 11:54		OK
11	CCB1	CCB1	CCB	03/08/18 11:54		OK
12	PB107146BL	PB107146BL	MB	03/08/18 11:54		OK
13	PB107146BS	PB107146BS	LCS	03/08/18 11:54		OK
14	LOWPB107146	LOWPB107146	SAM	03/08/18 11:54		OK
15	HIGHPB107146	HIGHPB107146	SAM	03/08/18 11:54		OK
16	J1826-08	TP-2-COMP	SAM	03/08/18 11:54		OK
17	J1826-08DUP	TP-2-COMPDUP	DUP	03/08/18 11:54		OK
18	J1826-08MS	TP-2-COMPMS	MS	03/08/18 11:54		OK
19	J1826-08MSD	TP-2-COMPMSD	MSD	03/08/18 12:02		OK
20	J1826-09	TP-3-A-COMP	SAM	03/08/18 12:02		OK
21	J1826-10	TP-3-B-COMP	SAM	03/08/18 12:02		OK

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ICV Standard		W1542				
CCV Standard		WP62551				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62553,WP59958,WP60878				
22	CCV2	CCV2	CCV	03/08/18 12:02		OK
23	CCB2	CCB2	CCB	03/08/18 12:02		OK
24	J1828-01	STONE-SUBSTATIO	SAM	03/08/18 12:02		OK
25	J1828-07	Concrete-Structure	SAM	03/08/18 12:02		OK
26	J1829-02	SB-05-6.5-10.5	SAM	03/08/18 12:02		OK
27	J1829-05	SB-12-01-05	SAM	03/08/18 12:02		OK
28	J1831-01	1-1-4-BLUE-STONE-	SAM	03/08/18 12:02		OK
29	CCV3	CCV3	CCV	03/08/18 12:02		OK
30	CCB3	CCB3	CCB	03/08/18 12:05		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB93761	Date Received:	
Client Sample ID:	HIGHPB107146	SDG No.:	LB93761
Lab Sample ID:	HIGHPB107146	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		03/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93761	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	TP-2-COMP	SDG No.:	LB93761
Lab Sample ID:	J1826-08	Matrix:	Solid
Level (low/med):	low	% Solid:	95.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.079	J	1	0.034		0.26	mg/Kg	03/08/2018	03/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93761	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	TP-3-A-COMP	SDG No.:	LB93761
Lab Sample ID:	J1826-09	Matrix:	Solid
Level (low/med):	low	% Solid:	95.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.048	J	1	0.034		0.26	mg/Kg	03/08/2018	03/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93761	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	TP-3-B-COMP	SDG No.:	LB93761
Lab Sample ID:	J1826-10	Matrix:	Solid
Level (low/med):	low	% Solid:	95.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.035	J	1	0.034		0.26	mg/Kg	03/08/2018	03/08/2018	9012B

Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93761	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	STONE-SUBSTATION	SDG No.:	LB93761
Lab Sample ID:	J1828-01	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.022	U	1	0.032		0.24	mg/Kg	03/08/2018	03/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93761	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	Concrete-Structure	SDG No.:	LB93761
Lab Sample ID:	J1828-07	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	0.035	J	1	0.031		0.24	mg/Kg	03/08/2018	03/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93761	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	SB-05-6.5-10.5	SDG No.:	LB93761
Lab Sample ID:	J1829-02	Matrix:	Solid
Level (low/med):	low	% Solid:	87.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.19	J	1	0.035		0.27	mg/Kg	03/08/2018	03/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93761	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	SB-12-01-05	SDG No.:	LB93761
Lab Sample ID:	J1829-05	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	0.23	J	1	0.037		0.28	mg/Kg	03/08/2018	03/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/6/2018 12:00:00 AM
Project:	LB93761	Date Received:	3/6/2018 12:00:00 AM
Client Sample ID:	1-1-4-BLUE-STONE-DGA	SDG No.:	LB93761
Lab Sample ID:	J1831-01	Matrix:	Solid
Level (low/med):	low	% Solid:	99.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.046	J	1	0.033		0.25	mg/Kg	03/08/2018	03/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93761	Date Received:	
Client Sample ID:	LOWPB107146	SDG No.:	LB93761
Lab Sample ID:	LOWPB107146	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		03/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93761	Date Received:	
Client Sample ID:	LOWPB107146	SDG No.:	LB93761
Lab Sample ID:	LOWPB107146	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: LB93761

SDG No.: LB93761

Contract: _____

Lab Code: CHEM

Case No.: LB93761

SAS No.: LB93761

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	Cyanide	0.095	0.099	96		85 - 115		03/08/2018	11:54	LB93761



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93761

SDG No.: LB93761

Contract: _____ Lab Code: CHEM

Case No.: LB93761

SAS No.: LB93761

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	0.24	0.25	96		90 - 110		03/08/2018	11:54	LB93761
CCV2	Cyanide	0.24	0.25	96		90 - 110		03/08/2018	12:02	LB93761
CCV3	Cyanide	0.24	0.25	96		90 - 110		03/08/2018	12:02	LB93761



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93761 **SDG No.:** LB93761
Contract: **Lab Code:** CHEM **Case No.:** LB93761 **SAS No.:** LB93761

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00067	+/-0.005	U		0.005		03/08/2018	11:54	LB93761

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00055	+/-0.005	U		0.005		03/08/2018	11:54	LB93761
CCB2	Cyanide	0.00044	+/-0.005	U		0.005		03/08/2018	12:02	LB93761
CCB3	Cyanide	0.00021	+/-0.005	U		0.005		03/08/2018	12:05	LB93761



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93761

SDG No.: LB93761

Contract: Lab Code: CHEM

Case No.: LB93761

SAS No.: LB93761

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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- 3b -
PREPARATION BLANK SUMMARY

Client: LB93761

SDG No.: LB93761

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
PB107146BL	Cyanide	SOLID 0.026	<0.25	Batch Number: U		PB107146 0.25		Prep Date: 03/08/2018	03/08/2018 11:54	LB93761



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93761 level: low sdg no.: LB93761
contract: lab code: CHEM case no.: LB93761 sas no.: LB93761
matrix: Solid sample id: J1826-08 client id: TP-2-COMPMS
Percent Solids for Sample: 95.8 Spiked ID: J1826-08MS Percent Solids for Spike Sample: 95.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.6		0.079	J	2	76		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93761 level: low sdg no.: LB93761
contract: lab code: CHEM case no.: LB93761 sas no.: LB93761
matrix: Solid sample id: J1826-08 client id: TP-2-COMPMSD
Percent Solids for Sample: 95.8 Spiked ID: J1826-08MSD Percent Solids for Spike Sample: 95.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.6		0.079	J	2.1	72	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB93761 **Level:** LOW **SDG No.:** LB93761
Contract: **Lab Code:** CHEM **Case No.:** LB93761 **SAS No.:** LB93761
Matrix: Solid **Sample ID:** J1826-08 **Client ID:** TP-2-COMPDUP
Percent Solids for Sample: 95.8 **Duplicate ID** J1826-08DUP **Percent Solids for Spike Sample:** 95.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.079	J	0.044	J	57	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB93761 **Level:** LOW **SDG No.:** LB93761
Contract: **Lab Code:** CHEM **Case No.:** LB93761 **SAS No.:** LB93761
Matrix: Solid **Sample ID:** J1826-08MS **Client ID:** TP-2-COMPMSD
Percent Solids for Sample: 95.8 **Duplicate ID** J1826-08MSD **Percent Solids for Spike Sample:** 95.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.6		1.6		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93761 SDG No.: LB93761
Contract: Lab Code: CHEM Case No.: LB93761 SAS No.: LB93761

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB107146BS Cyanide	mg/Kg	4.8	4.6		95.8	85 - 115	
