

Daily Analysis Runlog For Sequence/QC Batch ID # LB93517

Review By

Review On

SubDirectory

LB93517

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP62283,WP62284,WP62285,WP62286,WP62287,WP62288,WP62289				
ICV Standard		W1542				
CCV Standard		WP62290				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62292,WP59958,WP60878				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	02/26/18 11:49		OK
2	5.0PPBCN	5.0PPBCN	CAL2	02/26/18 11:49		OK
3	10PPBCN	10PPBCN	CAL3	02/26/18 11:49		OK
4	50PPBCN	50PPBCN	CAL4	02/26/18 11:49		OK
5	100PPBCN	100PPBCN	CAL5	02/26/18 11:49		OK
6	250PPBCN	250PPBCN	CAL6	02/26/18 11:49		OK
7	500PPBCN	500PPBCN	CAL7	02/26/18 11:49		OK
8	ICV1	ICV1	ICV	02/26/18 12:18		OK
9	ICB1	ICB1	ICB	02/26/18 12:18		OK
10	CCV1	CCV1	CCV	02/26/18 12:18		OK
11	CCB1	CCB1	CCB	02/26/18 12:18		OK
12	PB106819BL	PB106819BL	MB	02/26/18 12:18		OK
13	PB106819BS	PB106819BS	LCS	02/26/18 12:18		OK
14	LOWPB106819	LOWPB106819	SAM	02/26/18 12:18		OK
15	HIGHPB106819	HIGHPB106819	SAM	02/26/18 12:18		OK
16	J1395-03	NB-01-022318	SAM	02/26/18 12:18		OK
17	J1395-03DUP	NB-01-022318DUP	DUP	02/26/18 12:18		OK
18	J1395-03MS	NB-01-022318MS	MS	02/26/18 12:18		OK
19	J1395-03MSD	NB-01-022318MSD	MSD	02/26/18 12:26		OK
20	J1397-09	CL-02-022318-A	SAM	02/26/18 12:26		OK
21	J1397-11	CL-02-022318-B	SAM	02/26/18 12:26		OK

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SubDirectory		LB93517		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP62283,WP62284,WP62285,WP62286,WP62287,WP62288,WP62289				
ICV Standard		W1542				
CCV Standard		WP62290				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62292,WP59958,WP60878				
22	CCV2	CCV2	CCV	02/26/18 12:26		OK
23	CCB2	CCB2	CCB	02/26/18 12:26		OK
24	J1397-13	CL-02-022318-C	SAM	02/26/18 12:26		OK
25	J1397-15	CL-02-022318-D	SAM	02/26/18 12:26		OK
26	J1397-17	CL-02-022318-E	SAM	02/26/18 12:26		OK
27	J1672-01	72-11977-72-11982	SAM	02/26/18 12:26		OK
28	J1675-01	VNJ-223	SAM	02/26/18 12:26		OK
29	J1686-01	T4-CONCRETE	SAM	02/26/18 12:26		OK
30	CCV3	CCV3	CCV	02/26/18 12:29		OK
31	CCB3	CCB3	CCB	02/26/18 12:29		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB93517	Date Received:	
Client Sample ID:	HIGHPB106819	SDG No.:	LB93517
Lab Sample ID:	HIGHPB106819	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		02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93517	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	NB-01-022318	SDG No.:	LB93517
Lab Sample ID:	J1395-03	Matrix:	Solid
Level (low/med):	low	% Solid:	82.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.076	J	1	0.039		0.3	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93517	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	CL-02-022318-A	SDG No.:	LB93517
Lab Sample ID:	J1397-09	Matrix:	Solid
Level (low/med):	low	% Solid:	86.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.049	J	1	0.038		0.29	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93517	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	CL-02-022318-B	SDG No.:	LB93517
Lab Sample ID:	J1397-11	Matrix:	Solid
Level (low/med):	low	% Solid:	88

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.04	J	1	0.037		0.28	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93517	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	CL-02-022318-C	SDG No.:	LB93517
Lab Sample ID:	J1397-13	Matrix:	Solid
Level (low/med):	low	% Solid:	86.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.065	J	1	0.037		0.28	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93517	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	CL-02-022318-D	SDG No.:	LB93517
Lab Sample ID:	J1397-15	Matrix:	Solid
Level (low/med):	low	% Solid:	85.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.033	U	1	0.038		0.28	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93517	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	CL-02-022318-E	SDG No.:	LB93517
Lab Sample ID:	J1397-17	Matrix:	Solid
Level (low/med):	low	% Solid:	84.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	J	1	0.039		0.3	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93517	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	72-11977-72-11982	SDG No.:	LB93517
Lab Sample ID:	J1672-01	Matrix:	Solid
Level (low/med):	low	% Solid:	57.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.098	J	1	0.057		0.43	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93517	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	VNJ-223	SDG No.:	LB93517
Lab Sample ID:	J1675-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.068	J	1	0.037		0.28	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/23/2018 12:00:00 AM
Project:	LB93517	Date Received:	2/23/2018 12:00:00 AM
Client Sample ID:	T4-CONCRETE	SDG No.:	LB93517
Lab Sample ID:	J1686-01	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	0.05	J	1	0.031		0.24	mg/Kg	02/26/2018	02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93517	Date Received:	
Client Sample ID:	LOWPB106819	SDG No.:	LB93517
Lab Sample ID:	LOWPB106819	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	0.0099		1	0.003		0.005	mg/L		02/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93517	Date Received:	
Client Sample ID:	LOWPB106819	SDG No.:	LB93517
Lab Sample ID:	LOWPB106819	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



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93517

SDG No.: LB93517

Contract: _____ Lab Code: CHEM

Case No.: LB93517 SAS No.: LB93517

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	0.096	0.099	97		85 - 115		02/26/2018	12:18	LB93517



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93517

SDG No.: LB93517

Contract: _____ Lab Code: CHEM

Case No.: LB93517

SAS No.: LB93517

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		02/26/2018	12:18	LB93517
CCV2	Cyanide	0.25	0.25	100		90 - 110		02/26/2018	12:26	LB93517
CCV3	Cyanide	0.25	0.25	100		90 - 110		02/26/2018	12:29	LB93517

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00014	+/-0.005	U		0.005		02/26/2018	12:18	LB93517



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93517

SDG No.: LB93517

Contract:

Lab Code: CHEM

Case No.: LB93517

SAS No.: LB93517

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00025	+/-0.005	U		0.005		02/26/2018	12:18	LB93517
CCB2	Cyanide	0.0004	+/-0.005	U		0.005		02/26/2018	12:26	LB93517
CCB3	Cyanide	0.0014	+/-0.005	U		0.005		02/26/2018	12:29	LB93517



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93517

SDG No.: LB93517

Contract: Lab Code: CHEM

Case No.: LB93517

SAS No.: LB93517

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: LB93517

SDG No.: LB93517

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
PB106819BL	Cyanide	SOLID 0.011	<0.24	Batch Number: U		PB106819 0.24		Prep Date: 02/26/2018	02/26/2018 12:18	LB93517



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93517 level: low sdg no.: LB93517
contract: lab code: CHEM case no.: LB93517 sas no.: LB93517
matrix: Solid sample id: J1395-03 client id: NB-01-022318MS
Percent Solids for Sample: 82.2 Spiked ID: J1395-03MS Percent Solids for Spike Sample: 82.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.076	J	2.4	84		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93517 level: low sdg no.: LB93517
contract: lab code: CHEM case no.: LB93517 sas no.: LB93517
matrix: Solid sample id: J1395-03 client id: NB-01-022318MSD
Percent Solids for Sample: 82.2 Spiked ID: J1395-03MSD Percent Solids for Spike Sample: 82.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.076	J	2.4	84		

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DUPLICATE SAMPLE SUMMARY

Client: LB93517 **Level:** LOW **SDG No.:** LB93517
Contract: **Lab Code:** CHEM **Case No.:** LB93517 **SAS No.:** LB93517
Matrix: Solid **Sample ID:** J1395-03 **Client ID:** NB-01-022318DUP
Percent Solids for Sample: 82.2 **Duplicate ID** J1395-03DUP **Percent Solids for Spike Sample:** 82.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.076	J	0.057	J	29	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB93517 **Level:** LOW **SDG No.:** LB93517
Contract: **Lab Code:** CHEM **Case No.:** LB93517 **SAS No.:** LB93517
Matrix: Solid **Sample ID:** J1395-03MS **Client ID:** NB-01-022318MSD
Percent Solids for Sample: 82.2 **Duplicate ID** J1395-03MSD **Percent Solids for Spike Sample:** 82.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.1		2.1		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93517

SDG No.: LB93517

Contract:

Lab Code: CHEM

Case No.: LB93517

SAS No.: LB93517

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106819BS Cyanide	mg/Kg	4.9	4.6		93.9	85 - 115	
