

Daily Analysis Runlog For Sequence/QC Batch ID # LB95353

Review By

Review On

SubDirectory

LB95353

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP64476,WP64477,WP64478,WP64479,WP64480,WP64481,WP64482				
ICV Standard		W1542				
CCV Standard		WP64482				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64485,WP59958,WP60878				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/15/18 08:11		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/15/18 08:11		OK
3	10PPBCN	10PPBCN	CAL3	05/15/18 08:11		OK
4	50PPBCN	50PPBCN	CAL4	05/15/18 08:11		OK
5	100PPBCN	100PPBCN	CAL5	05/15/18 08:11		OK
6	250PPBCN	250PPBCN	CAL6	05/15/18 08:11		OK
7	500PPBCN	500PPBCN	CAL7	05/15/18 08:11		OK
8	ICV1	ICV1	ICV	05/15/18 08:40		OK
9	ICB1	ICB1	ICB	05/15/18 08:40		OK
10	CCV1	CCV1	CCV	05/15/18 08:40		OK
11	CCB1	CCB1	CCB	05/15/18 08:40		OK
12	PB109272BL	PB109272BL	MB	05/15/18 08:40		OK
13	PB109272BS	PB109272BS	LCS	05/15/18 08:40		OK
14	LOWPB109272	LOWPB109272	SAM	05/15/18 08:40		OK
15	HIGHPB109272	HIGHPB109272	SAM	05/15/18 08:40		OK
16	J2670-03	TR-05-051118	SAM	05/15/18 08:40		OK
17	J2670-03DUP	TR-05-051118DUP	DUP	05/15/18 08:40		OK
18	J2670-03MS	TR-05-051118MS	MS	05/15/18 08:40		OK
19	J2670-03MSD	TR-05-051118MSD	MSD	05/15/18 08:48		OK
20	J2674-03	HD-01-051118	SAM	05/15/18 08:48		OK
21	J2679-07	EO-05-051118-A	SAM	05/15/18 08:48		OK

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SubDirectory		Test : Cyanide				
LB95353						
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ICV Standard		W1542				
CCV Standard		WP64482				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64485,WP59958,WP60878				
22	CCV2	CCV2	CCV	05/15/18 08:48		OK
23	CCB2	CCB2	CCB	05/15/18 08:48		OK
24	J2679-09	EO-05-051118-B	SAM	05/15/18 08:48		OK
25	J2679-11	EO-05-051118-C	SAM	05/15/18 08:48		OK
26	J2823-01	GREENSAND-SUPP	SAM	05/15/18 09:06		OK
27	J2823-02	GREENSAND-SUPP	SAM	05/15/18 09:07		OK
28	CCV3	CCV3	CCV	05/15/18 09:07		OK
29	CCB3	CCB3	CCB	05/15/18 09:07		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB95353	Date Received:	
Client Sample ID:	HIGHPB109272	SDG No.:	LB95353
Lab Sample ID:	HIGHPB109272	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		05/15/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95353	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	TR-05-051118	SDG No.:	LB95353
Lab Sample ID:	J2670-03	Matrix:	Solid
Level (low/med):	low	% Solid:	90.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0015	U	1	0.035		0.27	mg/Kg	05/14/2018	05/15/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95353	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	HD-01-051118	SDG No.:	LB95353
Lab Sample ID:	J2674-03	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.
57-12-5	Cyanide	-0.045	U	1	0.039		0.3	mg/Kg	05/14/2018	05/15/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95353	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	EO-05-051118-A	SDG No.:	LB95353
Lab Sample ID:	J2679-07	Matrix:	Solid
Level (low/med):	low	% Solid:	90

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.07	J	1	0.035		0.26	mg/Kg	05/14/2018	05/15/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95353	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	EO-05-051118-B	SDG No.:	LB95353
Lab Sample ID:	J2679-09	Matrix:	Solid
Level (low/med):	low	% Solid:	92.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0057	U	1	0.034		0.26	mg/Kg	05/14/2018	05/15/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95353	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	EO-05-051118-C	SDG No.:	LB95353
Lab Sample ID:	J2679-11	Matrix:	Solid
Level (low/med):	low	% Solid:	91.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0011	U	1	0.035		0.26	mg/Kg	05/14/2018	05/15/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95353	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	GREENSAND-SUPPLY-A	SDG No.:	LB95353
Lab Sample ID:	J2823-01	Matrix:	Solid
Level (low/med):	low	% Solid:	71.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.068	U	1	0.043		0.33	mg/Kg	05/14/2018	05/15/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95353	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	GREENSAND-SUPPLY-B	SDG No.:	LB95353
Lab Sample ID:	J2823-02	Matrix:	Solid
Level (low/med):	low	% Solid:	60.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.071	U	1	0.05		0.38	mg/Kg	05/14/2018	05/15/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB95353	Date Received:	
Client Sample ID:	LOWPB109272	SDG No.:	LB95353
Lab Sample ID:	LOWPB109272	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	0.0095		1	0.003		0.005	mg/L		05/15/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB95353	Date Received:	
Client Sample ID:	LOWPB109272	SDG No.:	LB95353
Lab Sample ID:	LOWPB109272	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: LB95353

SDG No.: LB95353

Contract: _____

Lab Code: CHEM

Case No.: LB95353

SAS No.: LB95353

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	0.097	0.099	98		85 - 115		05/15/2018	08:40	LB95353



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95353

SDG No.: LB95353

Contract: _____ Lab Code: CHEM

Case No.: LB95353

SAS No.: LB95353

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		05/15/2018	08:40	LB95353
CCV2	Cyanide	0.24	0.25	96		90 - 110		05/15/2018	08:48	LB95353
CCV3	Cyanide	0.26	0.25	104		90 - 110		05/15/2018	09:07	LB95353



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95353 **SDG No.:** LB95353
Contract: **Lab Code:** CHEM **Case No.:** LB95353 **SAS No.:** LB95353

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00039	+/-0.005	U		0.005		05/15/2018	08:40	LB95353

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00034	+/-0.005	U		0.005		05/15/2018	08:40	LB95353
CCB2	Cyanide	-0.00036	+/-0.005	U		0.005		05/15/2018	08:48	LB95353
CCB3	Cyanide	-0.0001	+/-0.005	U		0.005		05/15/2018	09:07	LB95353



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95353

SDG No.: LB95353

Contract: Lab Code: CHEM

Case No.: LB95353

SAS No.: LB95353

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: LB95353

SDG No.: LB95353

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
PB109272BL	Cyanide	SOLID -0.02	<0.24	Batch Number: U		PB109272 0.24		Prep Date: 05/15/2018	05/14/2018 08:40	LB95353

GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95353 level: low sdg no.: LB95353
contract: lab code: CHEM case no.: LB95353 sas no.: LB95353
matrix: Solid sample id: J2670-03 client id: TR-05-051118MS
Percent Solids for Sample: 90.3 Spiked ID: J2670-03MS Percent Solids for Spike Sample: 90.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.5		0.035	U	2.2	68.2	*	

GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95353 level: low sdg no.: LB95353
contract: lab code: CHEM case no.: LB95353 sas no.: LB95353
matrix: Solid sample id: J2670-03 client id: TR-05-051118MSD
Percent Solids for Sample: 90.3 Spiked ID: J2670-03MSD Percent Solids for Spike Sample: 90.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.6		0.035	U	2.1	76.2		

GENCHEM**- 6 -****DUPLICATE SAMPLE SUMMARY**

Client: LB95353 **Level:** LOW **SDG No.:** LB95353
Contract: **Lab Code:** CHEM **Case No.:** LB95353 **SAS No.:** LB95353
Matrix: Solid **Sample ID:** J2670-03 **Client ID:** TR-05-051118DUP
Percent Solids for Sample: 90.3 **Duplicate ID** J2670-03DUP **Percent Solids for Spike Sample:** 90.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.035	U	-0.02	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95353 **Level:** LOW **SDG No.:** LB95353
Contract: **Lab Code:** CHEM **Case No.:** LB95353 **SAS No.:** LB95353
Matrix: Solid **Sample ID:** J2670-03MS **Client ID:** TR-05-051118MSD
Percent Solids for Sample: 90.3 **Duplicate ID** J2670-03MSD **Percent Solids for Spike Sample:** 90.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.5		1.6		6		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95353

SDG No.: LB95353

Contract:

Lab Code: CHEM

Case No.: LB95353

SAS No.: LB95353

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB109272BS Cyanide	mg/Kg	5	4.7		94	85 - 115	