

Daily Analysis Runlog For Sequence/QC Batch ID # LB95678

Review By

Review On

SubDirectory

LB95678

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		wp64863,wp64864,wp64865,wp64866,wp64867,wp64868,wp64869,WP64870				
ICV Standard		W1542				
CCV Standard		WP64871				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64873,WP64695,WP64696				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/29/18 11:20		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/29/18 11:20		OK
3	10PPBCN	10PPBCN	CAL3	05/29/18 11:20		OK
4	50PPBCN	50PPBCN	CAL4	05/29/18 11:20		OK
5	100PPBCN	100PPBCN	CAL5	05/29/18 11:20		OK
6	250PPBCN	250PPBCN	CAL6	05/29/18 11:20		OK
7	500PPBCN	500PPBCN	CAL7	05/29/18 11:20		OK
8	ICV1	ICV1	ICV	05/29/18 13:45		OK
9	ICB1	ICB1	ICB	05/29/18 13:45		OK
10	CCV1	CCV1	CCV	05/29/18 13:45		OK
11	CCB1	CCB1	CCB	05/29/18 13:45		OK
12	PB109747BL	PB109747BL	MB	05/29/18 13:46		OK
13	PB109747BS	PB109747BS	LCS	05/29/18 13:46		OK
14	LOWPB109747	LOWPB109747	SAM	05/29/18 13:46		OK
15	HIGHPB109747	HIGHPB109747	SAM	05/29/18 13:46		OK
16	J3138-01	HP-SOIL	SAM	05/29/18 13:46		OK
17	J3138-01DUP	HP-SOILDUP	DUP	05/29/18 13:46		OK
18	J3157-01	153-117-20-161-20	SAM	05/29/18 13:53		OK
19	J3157-03	10-20-68-20-54-20	SAM	05/29/18 13:53		OK
20	CCV2	CCV2	CCV	05/29/18 13:53		OK
21	CCB2	CCB2	CCB	05/29/18 13:53		OK

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SubDirectory		LB95678		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		wp64863,wp64864,wp64865,wp64866,wp64867,wp64868,wp64869,WP64870				
ICV Standard		W1542				
CCV Standard		WP64871				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64873,WP64695,WP64696				
22	J3166-01	SA-01-052518	SAM	05/29/18 13:53		OK
23	J3174-01	D1	SAM	05/29/18 13:53		OK
24	J3174-03	D2	SAM	05/29/18 13:53		OK
25	J3177-03	TP-1-S	SAM	05/29/18 13:53		OK
26	J3177-07	TP-1-D	SAM	05/29/18 13:53		OK
27	PB109748BL	PB109748BL	MB	05/29/18 13:53		OK
28	PB109748BS	PB109748BS	LCS	05/29/18 14:01		OK
29	J3139-03	BS-BASELINEWATE	SAM	05/29/18 14:01		OK
30	J3139-03DUP	BS-BASELINEWATE	DUP	05/29/18 14:01		OK
31	J3139-03MS	BS-BASELINEWATE	MS	05/29/18 14:01		OK
32	CCV3	CCV3	CCV	05/29/18 14:01		OK
33	CCB3	CCB3	CCB	05/29/18 14:01		OK
34	J3139-03MSD	BS-BASELINEWATE	MSD	05/29/18 14:01		OK
35	J3138-01MS	HP-SOILMS	MS	05/29/18 14:24		OK
36	J3138-01MSD	HP-SOILMSD	MSD	05/29/18 14:24		OK
37	CCV4	CCV4	CCV	05/29/18 14:24		OK
38	CCB4	CCB4	CCB	05/29/18 14:24		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB95678	Date Received:	
Client Sample ID:	HIGHPB109747	SDG No.:	LB95678
Lab Sample ID:	HIGHPB109747	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		05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/25/2018 12:00:00 AM
Project:	LB95678	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	HP-SOIL	SDG No.:	LB95678
Lab Sample ID:	J3138-01	Matrix:	Solid
Level (low/med):	low	% Solid:	81.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.22	J	1	0.039		0.3	mg/Kg	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/25/2018 12:00:00 AM
Project:	LB95678	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	BS-BASELINEWATER	SDG No.:	LB95678
Lab Sample ID:	J3139-03	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	0.012		1	0.003		0.005	mg/L	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/25/2018 12:00:00 AM
Project:	LB95678	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	153-117-20-161-20	SDG No.:	LB95678
Lab Sample ID:	J3157-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.22	J	1	0.036		0.27	mg/Kg	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/25/2018 12:00:00 AM
Project:	LB95678	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	10-20-68-20-54-20	SDG No.:	LB95678
Lab Sample ID:	J3157-03	Matrix:	Solid
Level (low/med):	low	% Solid:	86.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.27	J	1	0.036		0.28	mg/Kg	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/25/2018 12:00:00 AM
Project:	LB95678	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	SA-01-052518	SDG No.:	LB95678
Lab Sample ID:	J3166-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	J	1	0.034		0.26	mg/Kg	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/25/2018 12:00:00 AM
Project:	LB95678	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	D1	SDG No.:	LB95678
Lab Sample ID:	J3174-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.35		1	0.035		0.26	mg/Kg	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/25/2018 12:00:00 AM
Project:	LB95678	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	D2	SDG No.:	LB95678
Lab Sample ID:	J3174-03	Matrix:	Solid
Level (low/med):	low	% Solid:	89.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.32		1	0.036		0.27	mg/Kg	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/25/2018 12:00:00 AM
Project:	LB95678	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	TP-1-S	SDG No.:	LB95678
Lab Sample ID:	J3177-03	Matrix:	Solid
Level (low/med):	low	% Solid:	85.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.038		0.29	mg/Kg	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/25/2018 12:00:00 AM
Project:	LB95678	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	TP-1-D	SDG No.:	LB95678
Lab Sample ID:	J3177-07	Matrix:	Solid
Level (low/med):	low	% Solid:	85.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.13	J	1	0.038		0.29	mg/Kg	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB95678	Date Received:	
Client Sample ID:	LOWPB109747	SDG No.:	LB95678
Lab Sample ID:	LOWPB109747	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	0.012		1	0.003		0.005	mg/L		05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB95678	Date Received:	
Client Sample ID:	LOWPB109747	SDG No.:	LB95678
Lab Sample ID:	LOWPB109747	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: LB95678

SDG No.: LB95678

Contract: _____ Lab Code: CHEM

Case No.: LB95678

SAS No.: LB95678

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		05/29/2018	13:45	lb95678



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95678

SDG No.: LB95678

Contract: _____ Lab Code: CHEM

Case No.: LB95678

SAS No.: LB95678

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	0.25	0.25	100		90 - 110		05/29/2018	13:45	lb95678
CCV2	Cyanide	0.25	0.25	100		90 - 110		05/29/2018	13:53	lb95678
CCV3	Cyanide	0.25	0.25	100		90 - 110		05/29/2018	14:01	lb95678
CCV4	Cyanide	0.26	0.25	104		90 - 110		05/29/2018	14:24	lb95678



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95678

SDG No.: LB95678

Contract:

Lab Code: CHEM

Case No.: LB95678

SAS No.: LB95678

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.0022	+/-0.005	U		0.005		05/29/2018	13:45	lb95678

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.0019	+/-0.005	U		0.005		05/29/2018	13:45	lb95678
CCB2	Cyanide	0.0022	+/-0.005	U		0.005		05/29/2018	13:53	lb95678
CCB3	Cyanide	0.0023	+/-0.005	U		0.005		05/29/2018	14:01	lb95678
CCB4	Cyanide	0.0028	+/-0.005	U		0.005		05/29/2018	14:24	lb95678



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	LB95678	SDG No.:	LB95678				
Contract:		Lab Code:	CHEM	Case No.:	LB95678	SAS No.:	LB95678

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: LB95678

SDG No.: LB95678

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
PB109747BL	Cyanide	SOLID		Batch Number:		PB109747		Prep Date:	05/29/2018	
		0.098	<0.25	J		0.25		05/29/2018	13:46	lb95678
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB109748BL	Cyanide	WATER		Batch Number:		PB109748		Prep Date:	05/29/2018	
		0.0019	<0.005	U		0.005		05/29/2018	13:53	lb95678



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95678 level: low sdg no.: LB95678
contract: lab code: CHEM case no.: LB95678 sas no.: LB95678
matrix: Solid sample id: J3138-01 client id: HP-SOILMS
Percent Solids for Sample: 81.2 Spiked ID: J3138-01MS Percent Solids for Spike Sample: 81.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.9		0.22	J	2.4	112		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95678 level: low sdg no.: LB95678
contract: lab code: CHEM case no.: LB95678 sas no.: LB95678
matrix: Solid sample id: J3138-01 client id: HP-SOILMSD
Percent Solids for Sample: 81.2 Spiked ID: J3138-01MSD Percent Solids for Spike Sample: 81.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.8		0.22	J	2.4	107		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95678 level: low sdg no.: LB95678
contract: lab code: CHEM case no.: LB95678 sas no.: LB95678
matrix: WATER sample id: J3139-03 client id: BS-BASELINEWATERMS
Percent Solids for Sample: 0 Spiked ID: J3139-03MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.053		0.012		0.04	103		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95678 level: low sdg no.: LB95678
contract: lab code: CHEM case no.: LB95678 sas no.: LB95678
matrix: WATER sample id: J3139-03 client id: BS-BASELINEWATERMSD
Percent Solids for Sample: 0 Spiked ID: J3139-03MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.054		0.012		0.04	105		

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DUPLICATE SAMPLE SUMMARY

Client: LB95678 **Level:** LOW **SDG No.:** LB95678
Contract: **Lab Code:** CHEM **Case No.:** LB95678 **SAS No.:** LB95678
Matrix: Solid **Sample ID:** J3138-01 **Client ID:** HP-SOILDUP
Percent Solids for Sample: 81.2 **Duplicate ID** J3138-01DUP **Percent Solids for Spike Sample:** 81.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.22	J	0.23	J	4		

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DUPLICATE SAMPLE SUMMARY

Client: LB95678 **Level:** LOW **SDG No.:** LB95678
Contract: **Lab Code:** CHEM **Case No.:** LB95678 **SAS No.:** LB95678
Matrix: Solid **Sample ID:** J3138-01MS **Client ID:** HP-SOILMSD
Percent Solids for Sample: 81.2 **Duplicate ID** J3138-01MSD **Percent Solids for Spike Sample:** 81.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.9		2.8		4		



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DUPLICATE SAMPLE SUMMARY

Client: LB95678 Level: LOW SDG No.: LB95678
Contract: _____ Lab Code: CHEM Case No.: LB95678 SAS No.: LB95678
Matrix: WATER Sample ID: J3139-03 Client ID: BS-BASELINEWATERDUP
Percent Solids for Sample: 0 Duplicate ID J3139-03DUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.012		0.013		8		



GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95678 Level: LOW SDG No.: LB95678
Contract: _____ Lab Code: CHEM Case No.: LB95678 SAS No.: LB95678
Matrix: WATER Sample ID: J3139-03MS Client ID: BS-BASELINEWATERMSD
Percent Solids for Sample: 0 Duplicate ID J3139-03MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.053		0.054		2		

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95678

SDG No.: LB95678

Contract:

Lab Code: CHEM

Case No.: LB95678

SAS No.: LB95678

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB109747BS Cyanide	mg/Kg	5	4.8		96	85 - 115	



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95678

SDG No.: LB95678

Contract:

Lab Code: CHEM

Case No.: LB95678

SAS No.: LB95678

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB109748BS Cyanide	mg/L	0.1	0.097		97	85 - 115	