

Daily Analysis Runlog For Sequence/QC Batch ID # LB90713

Review By		Review On				
SubDirectory		LB90713		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58658,WP58659,WP58660,WP58661,WP58662,WP58663,WP58656				
ICV Standard		WP58665				
CCV Standard		WP58664				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58666,WP55355,WP55836				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	10/10/17 09:25		OK
2	5.0PPBCN	5.0PPBCN	CAL2	10/10/17 09:25		OK
3	10PPBCN	10PPBCN	CAL3	10/10/17 09:25		OK
4	50PPBCN	50PPBCN	CAL4	10/10/17 09:25		OK
5	100PPBCN	100PPBCN	CAL5	10/10/17 09:25		OK
6	250PPBCN	250PPBCN	CAL6	10/10/17 09:25		OK
7	500PPBCN	500PPBCN	CAL7	10/10/17 09:25		OK
8	ICV1	ICV1	ICV	10/10/17 16:05		OK
9	ICB1	ICB1	ICB	10/10/17 16:05		OK
10	CCV1	CCV1	CCV	10/10/17 16:05		OK
11	CCB1	CCB1	CCB	10/10/17 16:05		OK
12	PB103132BL	PB103132BL	MB	10/10/17 16:05		OK
13	PB103132BS	PB103132BS	LCS	10/10/17 16:05		OK
14	LOWPB103132	LOWPB103132	SAM	10/10/17 16:12		OK
15	HIGHPB103132	HIGHPB103132	SAM	10/10/17 16:12		OK
16	I5763-01	220-2(2TRH)-COMP	SAM	10/10/17 16:12		OK
17	I5763-01DUP	220-2(2TRH)-COMP	DUP	10/10/17 16:12		OK
18	I5763-01MS	220-2(2TRH)-COMP	MS	10/10/17 16:12		OK
19	I5763-01MSD	220-2(2TRH)-COMP	MSD	10/10/17 16:12		OK
20	I5766-04	RS-CONCRETE	SAM	10/10/17 16:12		OK
21	PB103135BL	PB103135BL	MB	10/10/17 16:12		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB90713

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SubDirectory		LB90713		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58658,WP58659,WP58660,WP58661,WP58662,WP58663,WP58656				
ICV Standard		WP58665				
CCV Standard		WP58664				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58666,WP55355,WP55836				
22	CCV2	CCV2	CCV	10/10/17 16:12		OK
23	CCB2	CCB2	CCB	10/10/17 16:18		OK
24	PB103135BS	PB103135BS	LCS	10/10/17 16:18		OK
25	I5766-01	RS-FRACTANK	SAM	10/10/17 16:18		OK
26	I5766-01DUP	RS-FRACTANKDUP	DUP	10/10/17 16:18		OK
27	I5766-01MS	RS-FRACTANKMS	MS	10/10/17 16:19		OK
28	I5766-01MSD	RS-FRACTANKMSD	MSD	10/10/17 16:19		OK
29	CCV3	CCV3	CCV	10/10/17 16:19		OK
30	CCB3	CCB3	CCB	10/10/17 16:19		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB90713	Date Received:	
Client Sample ID:	HIGHPB103132	SDG No.:	LB90713
Lab Sample ID:	HIGHPB103132	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		10/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/9/2017 12:00:00 AM
Project:	LB90713	Date Received:	10/9/2017 12:00:00 AM
Client Sample ID:	220-2(2TRH)-COMP	SDG No.:	LB90713
Lab Sample ID:	I5763-01	Matrix:	Solid
Level (low/med):	low	% Solid:	84.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.41		1	0.038		0.29	mg/Kg	10/10/2017	10/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/9/2017 12:00:00 AM
Project:	LB90713	Date Received:	10/9/2017 12:00:00 AM
Client Sample ID:	RS-FRACTANK	SDG No.:	LB90713
Lab Sample ID:	I5766-01	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	0.085		1	0.003		0.005	mg/L	10/10/2017	10/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/9/2017 12:00:00 AM
Project:	LB90713	Date Received:	10/9/2017 12:00:00 AM
Client Sample ID:	RS-CONCRETE	SDG No.:	LB90713
Lab Sample ID:	I5766-04	Matrix:	Solid
Level (low/med):	low	% Solid:	92.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.13	J	1	0.034		0.26	mg/Kg	10/10/2017	10/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB90713	Date Received:	
Client Sample ID:	LOWPB103132	SDG No.:	LB90713
Lab Sample ID:	LOWPB103132	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	0.011		1	0.003		0.005	mg/L		10/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB90713	Date Received:	
Client Sample ID:	LOWPB103132	SDG No.:	LB90713
Lab Sample ID:	LOWPB103132	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: LB90713

SDG No.: LB90713

Contract: _____

Lab Code: CHEM

Case No.: LB90713

SAS No.: LB90713

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Cyanide	0.099	0.099	100	0	85 - 115		10/10/2017	16:05	LB90713



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90713

SDG No.: LB90713

Contract: _____ Lab Code: CHEM

Case No.: LB90713

SAS No.: LB90713

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Cyanide	0.25	0.25	100	0	90 - 110		10/10/2017	16:05	LB90713
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		10/10/2017	16:12	LB90713
CCV3	Cyanide	0.27	0.25	108	0	90 - 110		10/10/2017	16:19	LB90713



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90713 **SDG No.:** LB90713
Contract: **Lab Code:** CHEM **Case No.:** LB90713 **SAS No.:** LB90713

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.0019	+/-0.005	U		0.005		10/10/2017	16:05	LB90713



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90713

SDG No.: LB90713

Contract:

Lab Code: CHEM

Case No.: LB90713

SAS No.: LB90713

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.0038	+/-0.005	J		0.005		10/10/2017	16:05	LB90713
CCB2	Cyanide	0.0012	+/-0.005	U		0.005		10/10/2017	16:18	LB90713
CCB3	Cyanide	0.0018	+/-0.005	U		0.005		10/10/2017	16:19	LB90713



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90713

SDG No.: LB90713

Contract: Lab Code: CHEM

Case No.: LB90713

SAS No.: LB90713

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: LB90713

SDG No.: LB90713

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
PB103132BL	Cyanide	SOLID		Batch Number:		PB103132		Prep Date:	10/10/2017	
		0.11	<0.25	J		0.25		10/10/2017	16:05	LB90713
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB103135BL	Cyanide	WATER		Batch Number:		PB103135		Prep Date:	10/10/2017	
		0.0022	<0.005	U		0.005		10/10/2017	16:12	LB90713



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90713 level: low sdg no.: LB90713
contract: lab code: CHEM case no.: LB90713 sas no.: LB90713
matrix: Solid sample id: I5763-01 client id: 220-2(2TRH)-COMPMS
Percent Solids for Sample: 84.3 Spiked ID: I5763-01MS Percent Solids for Spike Sample: 84.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.6		0.41		2.3	95		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90713 level: low sdg no.: LB90713
contract: lab code: CHEM case no.: LB90713 sas no.: LB90713
matrix: Solid sample id: I5763-01 client id: 220-2(2TRH)-COMPMSD
Percent Solids for Sample: 84.3 Spiked ID: I5763-01MSD Percent Solids for Spike Sample: 84.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.4		0.41		2.3	87		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90713 level: low sdg no.: LB90713
contract: lab code: CHEM case no.: LB90713 sas no.: LB90713
matrix: WATER sample id: I5766-01 client id: RS-FRACTANKMS
Percent Solids for Sample: 0 Spiked ID: I5766-01MS 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	0.11		0.085		0.04	63	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90713 level: low sdg no.: LB90713
contract: lab code: CHEM case no.: LB90713 sas no.: LB90713
matrix: WATER sample id: I5766-01 client id: RS-FRACTANKMSD
Percent Solids for Sample: 0 Spiked ID: I5766-01MSD 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	0.11		0.085		0.04	63	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB90713 **Level:** LOW **SDG No.:** LB90713
Contract: **Lab Code:** CHEM **Case No.:** LB90713 **SAS No.:** LB90713
Matrix: Solid **Sample ID:** I5763-01 **Client ID:** 220-2(2TRH)-COMPDUP
Percent Solids for Sample: 84.3 **Duplicate ID** I5763-01DUP **Percent Solids for Spike Sample:** 84.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.41		0.42		2		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB90713 **Level:** LOW **SDG No.:** LB90713
Contract: **Lab Code:** CHEM **Case No.:** LB90713 **SAS No.:** LB90713
Matrix: Solid **Sample ID:** I5763-01MS **Client ID:** 220-2(2TRH)-COMPMSD
Percent Solids for Sample: 84.3 **Duplicate ID** I5763-01MSD **Percent Solids for Spike Sample:** 84.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.6		2.4		8		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90713 **Level:** LOW **SDG No.:** LB90713
Contract: **Lab Code:** CHEM **Case No.:** LB90713 **SAS No.:** LB90713
Matrix: WATER **Sample ID:** I5766-01 **Client ID:** RS-FRACTANKDUP
Percent Solids for Sample: 0 **Duplicate ID** I5766-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.085		0.084		1		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90713 **Level:** LOW **SDG No.:** LB90713
Contract: **Lab Code:** CHEM **Case No.:** LB90713 **SAS No.:** LB90713
Matrix: WATER **Sample ID:** I5766-01MS **Client ID:** RS-FRACTANKMSD
Percent Solids for Sample: 0 **Duplicate ID** I5766-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.11		0.11		0		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90713

SDG No.: LB90713

Contract:

Lab Code: CHEM

Case No.: LB90713

SAS No.: LB90713

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB103132BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90713

SDG No.: LB90713

Contract:

Lab Code: CHEM

Case No.: LB90713

SAS No.: LB90713

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB103135BS Cyanide	mg/L	0.1	0.1		100	85 - 115	