

Daily Analysis Runlog For Sequence/QC Batch ID # LB91443

Review By		Review On				
SubDirectory		LB91443		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59472,WP59473,WP59474,WP59475,WP59476,WP59477,WP59478				
ICV Standard		W1541				
CCV Standard		wp59479				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP59481,WP55836,WP55355				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/08/17 09:55		OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/08/17 09:55		OK
3	10PPBCN	10PPBCN	CAL3	11/08/17 09:55		OK
4	50PPBCN	50PPBCN	CAL4	11/08/17 09:55		OK
5	100PPBCN	100PPBCN	CAL5	11/08/17 09:55		OK
6	250PPBCN	250PPBCN	CAL6	11/08/17 09:55		OK
7	500PPBCN	500PPBCN	CAL7	11/08/17 09:55		OK
8	ICV1	ICV1	ICV	11/08/17 11:28		OK
9	ICB1	ICB1	ICB	11/08/17 11:28		OK
10	CCV1	CCV1	CCV	11/08/17 11:28		OK
11	CCB1	CCB1	CCB	11/08/17 11:28		OK
12	PB104044BL	PB104044BL	MB	11/08/17 11:28		OK
13	PB104044BS	PB104044BS	LCS	11/08/17 11:28		OK
14	HIGHPB104044	HIGHPB104044	SAM	11/08/17 11:36		OK
15	I6300-01	OR-02-110617	SAM	11/08/17 11:36		OK
16	I6300-01DUP	OR-02-110617DUP	DUP	11/08/17 11:36		OK
17	I6300-01MS	OR-02-110617MS	MS	11/08/17 11:36		OK
18	I6300-01MSD	OR-02-110617MSD	MSD	11/08/17 11:36		OK
19	I6311-01	TR-04-110617	SAM	11/08/17 11:36		OK
20	I6359-01	TP-1	SAM	11/08/17 11:36		OK
21	CCV2	CCV2	CCV	11/08/17 11:36		OK

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ICV Standard		W1541				
CCV Standard		wp59479				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP59481,WP55836,WP55355				
22	CCB2	CCB2	CCB	11/08/17 11:36		OK
23	PB104045BL	PB104045BL	MB	11/08/17 11:36		OK
24	PB104045BS	PB104045BS	LCS	11/08/17 11:36		OK
25	I6351-01	DRUMS-1-7	SAM	11/08/17 11:40		OK
26	I6351-01DUP	DRUMS-1-7DUP	DUP	11/08/17 11:40		OK
27	I6351-01MS	DRUMS-1-7MS	MS	11/08/17 11:40		OK
28	I6351-01MSD	DRUMS-1-7MSD	MSD	11/08/17 11:40		OK
29	I6358-01	OILY-WATER-FROM	SAM	11/08/17 11:40		OK
30	LOWPB104044	LOWPB104044	SAM	11/08/17 11:55		OK
31	CCV3	CCV3	CCV	11/08/17 12:11		OK
32	CCB3	CCB3	CCB	11/08/17 12:11		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB91443	Date Received:	
Client Sample ID:	HIGHPB104044	SDG No.:	LB91443
Lab Sample ID:	HIGHPB104044	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	0.47		1	0.003		0.005	mg/L		11/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/6/2017 12:00:00 AM
Project:	LB91443	Date Received:	11/6/2017 12:00:00 AM
Client Sample ID:	OR-02-110617	SDG No.:	LB91443
Lab Sample ID:	I6300-01	Matrix:	Solid
Level (low/med):	low	% Solid:	86.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.037		0.28	mg/Kg	11/07/2017	11/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/6/2017 12:00:00 AM
Project:	LB91443	Date Received:	11/6/2017 12:00:00 AM
Client Sample ID:	TR-04-110617	SDG No.:	LB91443
Lab Sample ID:	I6311-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.072	U	1	0.034		0.26	mg/Kg	11/07/2017	11/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/3/2017 12:00:00 AM
Project:	LB91443	Date Received:	11/6/2017 12:00:00 AM
Client Sample ID:	DRUMS-1-7	SDG No.:	LB91443
Lab Sample ID:	I6351-01	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	-0.00082	U	1	0.003		0.005	mg/L	11/07/2017	11/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/6/2017 12:00:00 AM
Project:	LB91443	Date Received:	11/6/2017 12:00:00 AM
Client Sample ID:	OILY-WATER-FROM-BERM	SDG No.:	LB91443
Lab Sample ID:	I6358-01	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	-0.00097	U	1	0.003		0.005	mg/L	11/07/2017	11/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/6/2017 12:00:00 AM
Project:	LB91443	Date Received:	11/6/2017 12:00:00 AM
Client Sample ID:	TP-1	SDG No.:	LB91443
Lab Sample ID:	I6359-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.063	U	1	0.035		0.26	mg/Kg	11/07/2017	11/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB91443	Date Received:	
Client Sample ID:	LOWPB104044	SDG No.:	LB91443
Lab Sample ID:	LOWPB104044	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	0.0083		1	0.003		0.005	mg/L		11/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB91443	Date Received:	
Client Sample ID:	LOWPB104044	SDG No.:	LB91443
Lab Sample ID:	LOWPB104044	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: LB91443

SDG No.: LB91443

Contract: _____ Lab Code: CHEM

Case No.: LB91443

SAS No.: LB91443

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	0.24	0.25	96	0	90 - 110		11/08/2017	11:28	LB91443
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		11/08/2017	11:36	LB91443
CCV3	Cyanide	0.27	0.25	108	0	90 - 110		11/08/2017	12:11	LB91443



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91443

SDG No.: LB91443

Contract:

Lab Code: CHEM

Case No.: LB91443

SAS No.: LB91443

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.0016	+/-0.005	U		0.005		11/08/2017	11:28	LB91443

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.0016	+/-0.005	U		0.005		11/08/2017	11:28	LB91443
CCB2	Cyanide	-0.0013	+/-0.005	U		0.005		11/08/2017	11:36	LB91443
CCB3	Cyanide	-0.0015	+/-0.005	U		0.005		11/08/2017	12:11	LB91443



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91443

SDG No.: LB91443

Contract: Lab Code: CHEM

Case No.: LB91443

SAS No.: LB91443

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: LB91443

SDG No.: LB91443

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
PB104044BL	Cyanide	SOLID		Batch Number:		PB104044		Prep Date:	11/07/2017	
		-0.085	<0.25	U		0.25		11/08/2017	11:28	LB91443
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB104045BL	Cyanide	WATER		Batch Number:		PB104045		Prep Date:	11/07/2017	
		-0.0014	<0.005	U		0.005		11/08/2017	11:36	LB91443



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91443 level: low sdg no.: LB91443
contract: lab code: CHEM case no.: LB91443 sas no.: LB91443
matrix: Solid sample id: I6300-01 client id: OR-02-110617MS
Percent Solids for Sample: 86.3 Spiked ID: I6300-01MS Percent Solids for Spike Sample: 86.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.5		0.12	J	2.3	103		



Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.5		0.12	J	2.3	103		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91443 level: low sdg no.: LB91443
contract: lab code: CHEM case no.: LB91443 sas no.: LB91443
matrix: WATER sample id: I6351-01 client id: DRUMS-1-7MS
Percent Solids for Sample: 0 Spiked ID: I6351-01MS 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	0.047		0.003	U	0.04	117.5		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91443 level: low sdg no.: LB91443
contract: lab code: CHEM case no.: LB91443 sas no.: LB91443
matrix: WATER sample id: I6351-01 client id: DRUMS-1-7MSD
Percent Solids for Sample: 0 Spiked ID: I6351-01MSD 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	0.048		0.003	U	0.04	120		

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

Client: LB91443 **Level:** LOW **SDG No.:** LB91443
Contract: **Lab Code:** CHEM **Case No.:** LB91443 **SAS No.:** LB91443
Matrix: Solid **Sample ID:** I6300-01 **Client ID:** OR-02-110617DUP
Percent Solids for Sample: 86.3 **Duplicate ID** I6300-01DUP **Percent Solids for Spike Sample:** 86.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.12	J	-0.0039	U	200.0	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91443 **Level:** LOW **SDG No.:** LB91443
Contract: **Lab Code:** CHEM **Case No.:** LB91443 **SAS No.:** LB91443
Matrix: Solid **Sample ID:** I6300-01MS **Client ID:** OR-02-110617MSD
Percent Solids for Sample: 86.3 **Duplicate ID** I6300-01MSD **Percent Solids for Spike Sample:** 86.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.5		2.5		0		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91443 **Level:** LOW **SDG No.:** LB91443
Contract: **Lab Code:** CHEM **Case No.:** LB91443 **SAS No.:** LB91443
Matrix: WATER **Sample ID:** I6351-01 **Client ID:** DRUMS-1-7DUP
Percent Solids for Sample: 0 **Duplicate ID** I6351-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.003	U	-0.0017	U			



GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91443 Level: LOW SDG No.: LB91443
Contract: Lab Code: CHEM Case No.: LB91443 SAS No.: LB91443
Matrix: WATER Sample ID: I6351-01MS Client ID: DRUMS-1-7MSD
Percent Solids for Sample: 0 Duplicate ID I6351-01MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.047		0.048		2		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91443

SDG No.: LB91443

Contract:

Lab Code: CHEM

Case No.: LB91443

SAS No.: LB91443

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104044BS Cyanide	mg/Kg	4.9	4.6		93.9	85 - 115	



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91443

SDG No.: LB91443

Contract:

Lab Code: CHEM

Case No.: LB91443

SAS No.: LB91443

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104045BS Cyanide	mg/L	0.1	0.098		98	85 - 115	