

Daily Analysis Runlog For Sequence/QC Batch ID # LB91336

Review By		Review On				
SubDirectory		LB91336		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59384,WP59385,WP59386,WP59387,WP59388,WP59389,WP59390				
ICV Standard		W1541				
CCV Standard		WP59391				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59392				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/03/17 10:28		OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/03/17 10:28		OK
3	10PPBCN	10PPBCN	CAL3	11/03/17 10:28		OK
4	50PPBCN	50PPBCN	CAL4	11/03/17 10:28		OK
5	100PPBCN	100PPBCN	CAL5	11/03/17 10:28		OK
6	250PPBCN	250PPBCN	CAL6	11/03/17 10:28		OK
7	500PPBCN	500PPBCN	CAL7	11/03/17 10:28		OK
8	ICV1	ICV1	ICV	11/03/17 12:59		OK
9	ICB1	ICB1	ICB	11/03/17 12:59		OK
10	CCV1	CCV1	CCV	11/03/17 12:59		OK
11	CCB1	CCB1	CCB	11/03/17 12:59		OK
12	PB103929BL	PB103929BL	MB	11/03/17 12:59		OK
13	PB103929BS	PB103929BS	LCS	11/03/17 12:59		OK
14	I6189-01	LEONIA-GEN	SAM	11/03/17 12:59		OK
15	I6189-01DUP	LEONIA-GENDUP	DUP	11/03/17 13:06		OK
16	I6189-01MS	LEONIA-GENMS	MS	11/03/17 13:06		OK
17	I6189-01MSD	LEONIA-GENMSD	MSD	11/03/17 13:06		OK
18	I6258-01	WOODLAKE-DR-2-1	SAM	11/03/17 13:06		OK
19	I6258-04	BOXWOOD-DR-2-4-	SAM	11/03/17 13:06		OK
20	I6275-01	DRUM(1-2)	SAM	11/03/17 13:06		OK
21	I6275-06	CONCRETE-PILE	SAM	11/03/17 13:06		OK

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SubDirectory		LB91336		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59384,WP59385,WP59386,WP59387,WP59388,WP59389,WP59390				
ICV Standard		W1541				
CCV Standard		WP59391				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59392				
22	CCV2	CCV2	CCV	11/03/17 13:06		OK
23	CCB2	CCB2	CCB	11/03/17 13:06		OK
24	PB103930BL	PB103930BL	MB	11/03/17 13:06		OK
25	PB103930BS	PB103930BS	LCS	11/03/17 13:06		OK
26	I6243-01	N35799	SAM	11/03/17 13:14		OK
27	I6243-01DUP	N35799DUP	DUP	11/03/17 13:14		OK
28	I6243-01MS	N35799MS	MS	11/03/17 13:14		OK
29	I6243-01MSD	N35799MSD	MSD	11/03/17 13:14		OK
30	I6275-09	2727	SAM	11/03/17 13:14		OK
31	I6277-01	FADW4807L	SAM	11/03/17 13:14		OK
32	LOWPB103929	LOWPB103929	SAM	11/03/17 13:14		OK
33	HIGHPB103929	HIGHPB103929	SAM	11/03/17 13:14		OK
34	CCV3	CCV3	CCV	11/03/17 13:14		OK
35	CCB3	CCB3	CCB	11/03/17 13:14		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB91336	Date Received:	
Client Sample ID:	HIGHPB103929	SDG No.:	LB91336
Lab Sample ID:	HIGHPB103929	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		11/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/1/2017 12:00:00 AM
Project:	LB91336	Date Received:	11/1/2017 12:00:00 AM
Client Sample ID:	LEONIA-GEN	SDG No.:	LB91336
Lab Sample ID:	I6189-01	Matrix:	Solid
Level (low/med):	low	% Solid:	83.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.014	U	1	0.038		0.29	mg/Kg	11/02/2017	11/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/1/2017 12:00:00 AM
Project:	LB91336	Date Received:	11/1/2017 12:00:00 AM
Client Sample ID:	N35799	SDG No.:	LB91336
Lab Sample ID:	I6243-01	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	0.0001	U	1	0.003		0.005	mg/L	11/02/2017	11/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/31/2017 12:00:00 AM
Project:	LB91336	Date Received:	10/31/2017 12:00:00 AM
Client Sample ID:	WOODLAKE-DR-2-14-18	SDG No.:	LB91336
Lab Sample ID:	I6258-01	Matrix:	Solid
Level (low/med):	low	% Solid:	82.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.025	U	1	0.038		0.29	mg/Kg	11/02/2017	11/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/31/2017 12:00:00 AM
Project:	LB91336	Date Received:	10/31/2017 12:00:00 AM
Client Sample ID:	BOXWOOD-DR-2-4-12-14	SDG No.:	LB91336
Lab Sample ID:	I6258-04	Matrix:	Solid
Level (low/med):	low	% Solid:	83.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.048	J	1	0.038		0.28	mg/Kg	11/02/2017	11/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/1/2017 12:00:00 AM
Project:	LB91336	Date Received:	11/1/2017 12:00:00 AM
Client Sample ID:	DRUM(1-2)	SDG No.:	LB91336
Lab Sample ID:	I6275-01	Matrix:	Solid
Level (low/med):	low	% Solid:	98.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.029	U	1	0.032		0.24	mg/Kg	11/02/2017	11/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/1/2017 12:00:00 AM
Project:	LB91336	Date Received:	11/1/2017 12:00:00 AM
Client Sample ID:	CONCRETE-PILE	SDG No.:	LB91336
Lab Sample ID:	I6275-06	Matrix:	Solid
Level (low/med):	low	% Solid:	91.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.035		0.26	mg/Kg	11/02/2017	11/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/1/2017 12:00:00 AM
Project:	LB91336	Date Received:	11/1/2017 12:00:00 AM
Client Sample ID:	2727	SDG No.:	LB91336
Lab Sample ID:	I6275-09	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	0.0052		1	0.003		0.005	mg/L	11/02/2017	11/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/1/2017 12:00:00 AM
Project:	LB91336	Date Received:	11/1/2017 12:00:00 AM
Client Sample ID:	FADW4807L	SDG No.:	LB91336
Lab Sample ID:	I6277-01	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	0.0011	U	1	0.003		0.005	mg/L	11/02/2017	11/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB91336	Date Received:	
Client Sample ID:	LOWPB103929	SDG No.:	LB91336
Lab Sample ID:	LOWPB103929	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		11/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB91336	Date Received:	
Client Sample ID:	LOWPB103929	SDG No.:	LB91336
Lab Sample ID:	LOWPB103929	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: LB91336

SDG No.: LB91336

Contract: _____ Lab Code: CHEM

Case No.: LB91336

SAS No.: LB91336

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		11/03/2017	12:59	LB91336
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		11/03/2017	13:06	LB91336
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		11/03/2017	13:14	LB91336



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91336

SDG No.: LB91336

Contract:

Lab Code: CHEM

Case No.: LB91336

SAS No.: LB91336

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.0001	+/-0.005	U		0.005		11/03/2017	12:59	LB91336

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00022	+/-0.005	U		0.005		11/03/2017	12:59	LB91336
CCB2	Cyanide	0	+/-0.005	U		0.005		11/03/2017	13:06	LB91336
CCB3	Cyanide	0.00044	+/-0.005	U		0.005		11/03/2017	13:14	LB91336



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91336

SDG No.: LB91336

Contract: Lab Code: CHEM

Case No.: LB91336

SAS No.: LB91336

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: LB91336

SDG No.: LB91336

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
PB103929BL	Cyanide	SOLID		Batch Number:		PB103929		Prep Date:	11/02/2017	
		-0.012	<0.25	U		0.25		11/03/2017	12:59	LB91336
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB103930BL	Cyanide	WATER		Batch Number:		PB103930		Prep Date:	11/02/2017	
		-0.0001	<0.005	U		0.005		11/03/2017	13:06	LB91336



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91336 level: low sdg no.: LB91336
contract: lab code: CHEM case no.: LB91336 sas no.: LB91336
matrix: Solid sample id: I6189-01 client id: LEONIA-GENMS
Percent Solids for Sample: 83.5 Spiked ID: I6189-01MS Percent Solids for Spike Sample: 83.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.2		0.038	U	2.3	95.7		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91336 level: low sdg no.: LB91336
contract: lab code: CHEM case no.: LB91336 sas no.: LB91336
matrix: Solid sample id: I6189-01 client id: LEONIA-GENMSD
Percent Solids for Sample: 83.5 Spiked ID: I6189-01MSD Percent Solids for Spike Sample: 83.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.2		0.038	U	2.3	95.7		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91336 level: low sdg no.: LB91336
contract: lab code: CHEM case no.: LB91336 sas no.: LB91336
matrix: WATER sample id: I6243-01 client id: N35799MS
Percent Solids for Sample: 0 Spiked ID: I6243-01MS 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	0.035		0.003	U	0.04	87.5		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91336 level: low sdg no.: LB91336
contract: lab code: CHEM case no.: LB91336 sas no.: LB91336
matrix: WATER sample id: I6243-01 client id: N35799MSD
Percent Solids for Sample: 0 Spiked ID: I6243-01MSD 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	0.035		0.003	U	0.04	87.5		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91336 Level: LOW SDG No.: LB91336
Contract: _____ Lab Code: CHEM Case No.: LB91336 SAS No.: LB91336
Matrix: Solid Sample ID: I6189-01 Client ID: LEONIA-GENDUP
Percent Solids for Sample: 83.5 Duplicate ID I6189-01DUP Percent Solids for Spike Sample: 83.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.038	U	0.029	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB91336 **Level:** LOW **SDG No.:** LB91336
Contract: **Lab Code:** CHEM **Case No.:** LB91336 **SAS No.:** LB91336
Matrix: Solid **Sample ID:** I6189-01MS **Client ID:** LEONIA-GENMSD
Percent Solids for Sample: 83.5 **Duplicate ID** I6189-01MSD **Percent Solids for Spike Sample:** 83.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.2		2.2		0		

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DUPLICATE SAMPLE SUMMARY

Client: LB91336 **Level:** LOW **SDG No.:** LB91336
Contract: **Lab Code:** CHEM **Case No.:** LB91336 **SAS No.:** LB91336
Matrix: WATER **Sample ID:** I6243-01 **Client ID:** N35799DUP
Percent Solids for Sample: 0 **Duplicate ID** I6243-01DUP **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	0.00013	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91336 **Level:** LOW **SDG No.:** LB91336
Contract: **Lab Code:** CHEM **Case No.:** LB91336 **SAS No.:** LB91336
Matrix: WATER **Sample ID:** I6243-01MS **Client ID:** N35799MSD
Percent Solids for Sample: 0 **Duplicate ID** I6243-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.035		0.035		0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91336

SDG No.: LB91336

Contract:

Lab Code: CHEM

Case No.: LB91336

SAS No.: LB91336

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB103929BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91336

SDG No.: LB91336

Contract:

Lab Code: CHEM

Case No.: LB91336

SAS No.: LB91336

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB103930BS Cyanide	mg/L	0.1	0.097		97	85 - 115	