

Daily Analysis Runlog For Sequence/QC Batch ID # LB91564

Review By

Review On

SubDirectory

LB91564

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP59566,WP59567,WP59568,WP59569,WP59570,WP59571,WP59572				
ICV Standard		W1541				
CCV Standard		WP59573				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59574				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/13/17 10:31		OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/13/17 10:31		OK
3	10PPBCN	10PPBCN	CAL3	11/13/17 10:31		OK
4	50PPBCN	50PPBCN	CAL4	11/13/17 10:31		OK
5	100PPBCN	100PPBCN	CAL5	11/13/17 10:31		OK
6	250PPBCN	250PPBCN	CAL6	11/13/17 10:31		OK
7	500PPBCN	500PPBCN	CAL7	11/13/17 10:31		OK
8	ICV1	ICV1	ICV	11/13/17 16:26		OK
9	ICB1	ICB1	ICB	11/13/17 16:26		OK
10	CCV1	CCV1	CCV	11/13/17 16:26		OK
11	CCB1	CCB1	CCB	11/13/17 16:26		OK
12	PB104214BL	PB104214BL	MB	11/13/17 16:26		OK
13	PB104214BS	PB104214BS	LCS	11/13/17 16:26		OK
14	I6441-03	TP-11A-11B	SAM	11/13/17 16:26		OK
15	I6441-03DUP	TP-11A-11BDUP	DUP	11/13/17 16:34		OK
16	I6441-03MS	TP-11A-11BMS	MS	11/13/17 16:34		OK
17	I6441-03MSD	TP-11A-11BMSD	MSD	11/13/17 16:34		OK
18	I6441-07	TP-10	SAM	11/13/17 16:34		OK
19	I6441-12	TP-9A-9B	SAM	11/13/17 16:34		OK
20	CCV2	CCV2	CCV	11/13/17 16:34		OK
21	CCB2	CCB2	CCB	11/13/17 16:34		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB91564

Review By		Review On				
SubDirectory		LB91564		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59566,WP59567,WP59568,WP59569,WP59570,WP59571,WP59572				
ICV Standard		W1541				
CCV Standard		WP59573				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59574				
22	I6441-18	TP-8	SAM	11/13/17 16:34		OK
23	I6441-23	TP-7A-7B	SAM	11/13/17 16:34		OK
24	I6441-29	TP-16	SAM	11/13/17 16:34		OK
25	PB104213BL	PB104213BL	MB	11/13/17 16:34		OK
26	PB104213BS	PB104213BS	LCS	11/13/17 16:41		OK
27	I6436-03	153RD-63RD-ST-DR	SAM	11/13/17 16:41		OK
28	I6441-31	TP-8	SAM	11/13/17 16:41		OK
29	I6441-31DUP	TP-8DUP	DUP	11/13/17 16:41		OK
30	I6441-31MS	TP-8MS	MS	11/13/17 16:42		OK
31	I6441-31MSD	TP-8MSD	MSD	11/13/17 16:42		OK
32	CCV3	CCV3	CCV	11/13/17 16:42		OK
33	CCB3	CCB3	CCB	11/13/17 16:42		OK
34	I6443-01	FADW4870L	SAM	11/13/17 16:42		OK
35	PB104212BL	PB104212BL	MB	11/13/17 16:42		OK
36	PB104212BS	PB104212BS	LCS	11/13/17 16:42		OK
37	I6300-03	OR-03-111017	SAM	11/13/17 16:49		OK
38	I6300-03DUP	OR-03-111017DUP	DUP	11/13/17 16:49		OK
39	I6300-03MS	OR-03-111017MS	MS	11/13/17 16:49		OK
40	I6300-03MSD	OR-03-111017MSD	MSD	11/13/17 16:49		OK
41	I6307-01	EO-02-111017-A	SAM	11/13/17 16:49		OK
42	I6307-03	EO-02-111017-B	SAM	11/13/17 16:49		OK
43	I6307-05	EO-02-111017-C	SAM	11/13/17 16:49		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB91564

Review By		Review On				
SubDirectory		LB91564		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59566,WP59567,WP59568,WP59569,WP59570,WP59571,WP59572				
ICV Standard		W1541				
CCV Standard		WP59573				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59574				
44	CCV4	CCV4	CCV	11/13/17 16:49		OK
45	CCB4	CCB4	CCB	11/13/17 16:49		OK
46	I6423-02	B8(0-10)COMP	SAM	11/13/17 16:49		OK
47	I6427-01	277-216-156-343-350	SAM	11/13/17 16:49		OK
48	I6436-01	153RD-63RD-ST-DR	SAM	11/13/17 16:54		OK
49	CCV5	CCV5	CCV	11/13/17 16:54		OK
50	CCB5	CCB5	CCB	11/13/17 16:54		OK
51	LOWPB104214	LOWPB104214	SAM	11/13/17 17:17		OK
52	HIGHPB104214	HIGHPB104214	SAM	11/13/17 17:17		OK
53	CCV6	CCV6	CCV	11/13/17 17:17		OK
54	CCB6	CCB6	CCB	11/13/17 17:17		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB91564	Date Received:	
Client Sample ID:	HIGHPB104214	SDG No.:	LB91564
Lab Sample ID:	HIGHPB104214	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	0.51	OR	1	0.003		0.005	mg/L		11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91564	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	OR-03-111017	SDG No.:	LB91564
Lab Sample ID:	I6300-03	Matrix:	Solid
Level (low/med):	low	% Solid:	93.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.05	U	1	0.035		0.26	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91564	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	EO-02-111017-A	SDG No.:	LB91564
Lab Sample ID:	I6307-01	Matrix:	Solid
Level (low/med):	low	% Solid:	87.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.079	U	1	0.036		0.27	mg/Kg	11/13/2017	11/13/2017	9012B

Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91564	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	EO-02-111017-B	SDG No.:	LB91564
Lab Sample ID:	I6307-03	Matrix:	Solid
Level (low/med):	low	% Solid:	91

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.041	U	1	0.035		0.27	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91564	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	EO-02-111017-C	SDG No.:	LB91564
Lab Sample ID:	I6307-05	Matrix:	Solid
Level (low/med):	low	% Solid:	90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.09	U	1	0.036		0.27	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/9/2017 12:00:00 AM
Project:	LB91564	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	B8(0-10)COMP	SDG No.:	LB91564
Lab Sample ID:	I6423-02	Matrix:	Solid
Level (low/med):	low	% Solid:	94.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.092	U	1	0.035		0.26	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91564	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	277-216-156-343-350-342	SDG No.:	LB91564
Lab Sample ID:	I6427-01	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	-0.07	U	1	0.035		0.27	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91564	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	153RD-63RD-ST-DRUM	SDG No.:	LB91564
Lab Sample ID:	I6436-01	Matrix:	Solid
Level (low/med):	low	% Solid:	72

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.043	U	1	0.043		0.33	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91564	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	153RD-63RD-ST-DRUM	SDG No.:	LB91564
Lab Sample ID:	I6436-03	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	0.0016	U	1	0.003		0.005	mg/L	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91564	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	TP-11A-11B	SDG No.:	LB91564
Lab Sample ID:	I6441-03	Matrix:	Solid
Level (low/med):	low	% Solid:	88.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.038	U	1	0.036		0.27	mg/Kg	11/13/2017	11/13/2017	9012B

Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91564	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	TP-10	SDG No.:	LB91564
Lab Sample ID:	I6441-07	Matrix:	Solid
Level (low/med):	low	% Solid:	80.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.075	U	1	0.039		0.29	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91564	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	TP-9A-9B	SDG No.:	LB91564
Lab Sample ID:	I6441-12	Matrix:	Solid
Level (low/med):	low	% Solid:	92.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.1	U	1	0.035		0.26	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91564	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	TP-8	SDG No.:	LB91564
Lab Sample ID:	I6441-18	Matrix:	Solid
Level (low/med):	low	% Solid:	93.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.054	U	1	0.035		0.26	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91564	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	TP-7A-7B	SDG No.:	LB91564
Lab Sample ID:	I6441-23	Matrix:	Solid
Level (low/med):	low	% Solid:	83.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.078	U	1	0.038		0.29	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91564	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	TP-16	SDG No.:	LB91564
Lab Sample ID:	I6441-29	Matrix:	Solid
Level (low/med):	low	% Solid:	87.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.067	U	1	0.036		0.27	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91564	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	TP-8	SDG No.:	LB91564
Lab Sample ID:	I6441-31	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	0.00093	U	1	0.003		0.005	mg/L	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91564	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	FADW4870L	SDG No.:	LB91564
Lab Sample ID:	I6443-01	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	0.008		1	0.003		0.005	mg/L	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB91564	Date Received:	
Client Sample ID:	LOWPB104214	SDG No.:	LB91564
Lab Sample ID:	LOWPB104214	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		11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB91564	Date Received:	
Client Sample ID:	LOWPB104214	SDG No.:	LB91564
Lab Sample ID:	LOWPB104214	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

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Cyanide	0.098	0.099	99	0	85 - 115		11/13/2017	16:26	LB91564

GENCHEM**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB91564**SDG No.:** LB91564**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB91564**SAS No.:** LB91564**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		11/13/2017	16:26	LB91564
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		11/13/2017	16:34	LB91564
CCV3	Cyanide	0.24	0.25	96	0	90 - 110		11/13/2017	16:42	LB91564
CCV4	Cyanide	0.24	0.25	96	0	90 - 110		11/13/2017	16:49	LB91564
CCV5	Cyanide	0.25	0.25	100	0	90 - 110		11/13/2017	16:54	LB91564
CCV6	Cyanide	0.25	0.25	100	0	90 - 110		11/13/2017	17:17	LB91564



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91564

SDG No.: LB91564

Contract:

Lab Code: CHEM

Case No.: LB91564

SAS No.: LB91564

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.0021	+/-0.005	U		0.005		11/13/2017	16:26	LB91564



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91564

SDG No.: LB91564

Contract:

Lab Code: CHEM

Case No.: LB91564

SAS No.: LB91564

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		11/13/2017	16:26	LB91564
CCB2	Cyanide	-0.002	+/-0.005	U		0.005		11/13/2017	16:34	LB91564
CCB3	Cyanide	-0.0014	+/-0.005	U		0.005		11/13/2017	16:42	LB91564
CCB4	Cyanide	-0.0016	+/-0.005	U		0.005		11/13/2017	16:49	LB91564
CCB5	Cyanide	-0.0019	+/-0.005	U		0.005		11/13/2017	16:54	LB91564
CCB6	Cyanide	-0.0021	+/-0.005	U		0.005		11/13/2017	17:17	LB91564



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91564

SDG No.: LB91564

Contract: Lab Code: CHEM

Case No.: LB91564

SAS No.: LB91564

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: LB91564

SDG No.: LB91564

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
PB104212BL	Cyanide	SOLID		Batch Number:		PB104212		Prep Date:	11/13/2017	
		-0.1	<0.25	U		0.25		11/13/2017	16:42	LB91564
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB104213BL	Cyanide	WATER		Batch Number:		PB104213		Prep Date:	11/13/2017	
		-0.0022	<0.005	U		0.005		11/13/2017	16:34	LB91564
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB104214BL	Cyanide	SOLID		Batch Number:		PB104214		Prep Date:	11/13/2017	
		-0.11	<0.25	U		0.25		11/13/2017	16:26	LB91564



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91564 level: low sdg no.: LB91564
contract: lab code: CHEM case no.: LB91564 sas no.: LB91564
matrix: Solid sample id: I6300-03 client id: OR-03-111017MS
Percent Solids for Sample: 93.6 Spiked ID: I6300-03MS Percent Solids for Spike Sample: 93.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2		0.035	U	2.1	95.2		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91564 level: low sdg no.: LB91564
contract: lab code: CHEM case no.: LB91564 sas no.: LB91564
matrix: Solid sample id: I6300-03 client id: OR-03-111017MSD
Percent Solids for Sample: 93.6 Spiked ID: I6300-03MSD Percent Solids for Spike Sample: 93.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125		2	0.035	U	2.1	95.2		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91564 level: low sdg no.: LB91564
contract: lab code: CHEM case no.: LB91564 sas no.: LB91564
matrix: Solid sample id: I6441-03 client id: TP-11A-11BMS
Percent Solids for Sample: 88.1 Spiked ID: I6441-03MS Percent Solids for Spike Sample: 88.1

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	0.072	J	0.036	U	2.2	3.3	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91564 level: low sdg no.: LB91564
contract: lab code: CHEM case no.: LB91564 sas no.: LB91564
matrix: Solid sample id: I6441-03 client id: TP-11A-11BMSD
Percent Solids for Sample: 88.1 Spiked ID: I6441-03MSD Percent Solids for Spike Sample: 88.1

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	0.068	J	0.036	U	2.2	3.1	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91564 level: low sdg no.: LB91564
contract: lab code: CHEM case no.: LB91564 sas no.: LB91564
matrix: WATER sample id: I6441-31 client id: TP-8MS
Percent Solids for Sample: 0 Spiked ID: I6441-31MS 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	0.031		0.003	U	0.04	77.5		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91564 level: low sdg no.: LB91564
contract: lab code: CHEM case no.: LB91564 sas no.: LB91564
matrix: WATER sample id: I6441-31 client id: TP-8MSD
Percent Solids for Sample: 0 Spiked ID: I6441-31MSD 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	0.031		0.003	U	0.04	77.5		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91564 **Level:** LOW **SDG No.:** LB91564
Contract: **Lab Code:** CHEM **Case No.:** LB91564 **SAS No.:** LB91564
Matrix: Solid **Sample ID:** I6300-03 **Client ID:** OR-03-111017DUP
Percent Solids for Sample: 93.6 **Duplicate ID** I6300-03DUP **Percent Solids for Spike Sample:** 93.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.035	U	-0.053	U			



GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91564 **Level:** LOW **SDG No.:** LB91564
Contract: **Lab Code:** CHEM **Case No.:** LB91564 **SAS No.:** LB91564
Matrix: Solid **Sample ID:** I6300-03MS **Client ID:** OR-03-111017MSD
Percent Solids for Sample: 93.6 **Duplicate ID** I6300-03MSD **Percent Solids for Spike Sample:** 93.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2		2		0		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91564 **Level:** LOW **SDG No.:** LB91564
Contract: **Lab Code:** CHEM **Case No.:** LB91564 **SAS No.:** LB91564
Matrix: Solid **Sample ID:** I6441-03 **Client ID:** TP-11A-11BDUP
Percent Solids for Sample: 88.1 **Duplicate ID** I6441-03DUP **Percent Solids for Spike Sample:** 88.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.036	U	-0.053	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91564 **Level:** LOW **SDG No.:** LB91564
Contract: **Lab Code:** CHEM **Case No.:** LB91564 **SAS No.:** LB91564
Matrix: Solid **Sample ID:** I6441-03MS **Client ID:** TP-11A-11BMSD
Percent Solids for Sample: 88.1 **Duplicate ID** I6441-03MSD **Percent Solids for Spike Sample:** 88.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.072	J	0.068	J	6		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91564 **Level:** LOW **SDG No.:** LB91564
Contract: **Lab Code:** CHEM **Case No.:** LB91564 **SAS No.:** LB91564
Matrix: WATER **Sample ID:** I6441-31 **Client ID:** TP-8DUP
Percent Solids for Sample: 0 **Duplicate ID** I6441-31DUP **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	0.00091	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91564 Level: LOW SDG No.: LB91564
Contract: _____ Lab Code: CHEM Case No.: LB91564 SAS No.: LB91564
Matrix: WATER Sample ID: I6441-31MS Client ID: TP-8MSD
Percent Solids for Sample: 0 Duplicate ID I6441-31MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.031		0.031		0		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91564 SDG No.: LB91564
Contract: Lab Code: CHEM Case No.: LB91564 SAS No.: LB91564

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104212BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91564

SDG No.: LB91564

Contract:

Lab Code: CHEM

Case No.: LB91564

SAS No.: LB91564

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104213BS Cyanide	mg/L	0.1	0.097		97	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91564 SDG No.: LB91564
Contract: Lab Code: CHEM Case No.: LB91564 SAS No.: LB91564

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104214BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	