

Daily Analysis Runlog For Sequence/QC Batch ID # LB91704

Review By		Review On				
SubDirectory		LB91704		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59755,WP59756,WP59757,WP59758,WP59759,WP59760,WP59761				
ICV Standard		W1541				
CCV Standard		WP59762				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59763				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/20/17 09:31		OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/20/17 09:31		OK
3	10PPBCN	10PPBCN	CAL3	11/20/17 09:31		OK
4	50PPBCN	50PPBCN	CAL4	11/20/17 09:31		OK
5	100PPBCN	100PPBCN	CAL5	11/20/17 09:31		OK
6	250PPBCN	250PPBCN	CAL6	11/20/17 09:31		OK
7	500PPBCN	500PPBCN	CAL7	11/20/17 09:31		OK
8	ICV1	ICV1	ICV	11/20/17 14:49		OK
9	ICB1	ICB1	ICB	11/20/17 14:50		OK
10	CCV1	CCV1	CCV	11/20/17 14:50		OK
11	CCB1	CCB1	CCB	11/20/17 14:50		OK
12	PB104401BL	PB104401BL	MB	11/20/17 14:50		OK
13	PB104401BS	PB104401BS	LCS	11/20/17 14:50		OK
14	LOWPB104401	LOWPB104401	SAM	11/20/17 14:50		OK
15	HIGHPB104401	HIGHPB104401	SAM	11/20/17 14:57		OK
16	I6548-01	SAU-3-E(4-5)	SAM	11/20/17 14:57		OK
17	I6548-01DUP	SAU-3-E(4-5)DUP	DUP	11/20/17 14:57		OK
18	I6548-01MS	SAU-3-E(4-5)MS	MS	11/20/17 14:57		OK
19	I6548-01MSD	SAU-3-E(4-5)MSD	MSD	11/20/17 14:57		OK
20	I6548-02	SAU-3-E(7-8)	SAM	11/20/17 14:57		OK
21	I6548-03	SAU-1-E(3-4)	SAM	11/20/17 14:57		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB91704

Review By		Review On				
SubDirectory		LB91704		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59755,WP59756,WP59757,WP59758,WP59759,WP59760,WP59761				
ICV Standard		W1541				
CCV Standard		WP59762				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59763				
22	CCV2	CCV2	CCV	11/20/17 14:57		OK
23	CCB2	CCB2	CCB	11/20/17 14:57		OK
24	I6548-04	SAU-1-E(7-8)	SAM	11/20/17 14:57		OK
25	I6548-05	SAU-2-E(0-1)	SAM	11/20/17 14:57		OK
26	I6548-06	SAU-2-E(4-5)	SAM	11/20/17 15:05		OK
27	I6548-07	SAU-2-E(7-8)	SAM	11/20/17 15:05		OK
28	I6548-08	SAU-4-E(0-1)	SAM	11/20/17 15:05		OK
29	I6548-09	SAU-4-E(4-5)	SAM	11/20/17 15:05		OK
30	I6548-10	SAU-4-E(7-8)	SAM	11/20/17 15:05		OK
31	PB104403BL	PB104403BL	MB	11/20/17 15:05		OK
32	PB104403BS	PB104403BS	LCS	11/20/17 15:05		OK
33	I6300-05	OR-01-111717	SAM	11/20/17 15:05		OK
34	CCV3	CCV3	CCV	11/20/17 15:05		OK
35	CCB3	CCB3	CCB	11/20/17 15:05		OK
36	I6300-05DUP	OR-01-111717DUP	DUP	11/20/17 15:05		OK
37	I6300-05MS	OR-01-111717MS	MS	11/20/17 15:12		OK
38	I6300-05MSD	OR-01-111717MSD	MSD	11/20/17 15:12		OK
39	I6306-01	NB-08-111717	SAM	11/20/17 15:12		OK
40	I6311-05	TR-04-111717	SAM	11/20/17 15:12		OK
41	I6517-01	HP-WC(COMP)	SAM	11/20/17 15:12		OK
42	I6535-01	RT-4252-RT-3025-RT	SAM	11/20/17 15:12		OK
43	I6538-01	OILY-STONES	SAM	11/20/17 15:12		OK



Instrument ID : KONELAB

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Daily Analysis Runlog For Sequence/QCBatch ID # LB91704

Review By		Review On				
SubDirectory		Test : Cyanide				
LB91704						
STD. NAME		STD REF.#				
ICAL Standard		WP59755,WP59756,WP59757,WP59758,WP59759,WP59760,WP59761				
ICV Standard		W1541				
CCV Standard		WP59762				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59763				
44	CCV4	CCV4	CCV	11/20/17 15:12		OK
45	CCB4	CCB4	CCB	11/20/17 15:12		OK



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	
Project:	LB91704	Date Received:	
Client Sample ID:	HIGHPB104401	SDG No.:	LB91704
Lab Sample ID:	HIGHPB104401	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	0.48		1	0.003		0.005	mg/L		11/20/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/17/2017 12:00:00 AM
Project:	LB91704	Date Received:	11/17/2017 12:00:00 AM
Client Sample ID:	OR-01-111717	SDG No.:	LB91704
Lab Sample ID:	I6300-05	Matrix:	Solid
Level (low/med):	low	% Solid:	93.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.013	U	1	0.035		0.26	mg/Kg	11/20/2017	11/20/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/17/2017 12:00:00 AM
Project:	LB91704	Date Received:	11/17/2017 12:00:00 AM
Client Sample ID:	NB-08-111717	SDG No.:	LB91704
Lab Sample ID:	I6306-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.038	J	1	0.036		0.27	mg/Kg	11/20/2017	11/20/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/17/2017 12:00:00 AM
Project:	LB91704	Date Received:	11/17/2017 12:00:00 AM
Client Sample ID:	TR-04-111717	SDG No.:	LB91704
Lab Sample ID:	I6311-05	Matrix:	Solid
Level (low/med):	low	% Solid:	87.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.013	U	1	0.037		0.28	mg/Kg	11/20/2017	11/20/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/15/2017 12:00:00 AM
Project:	LB91704	Date Received:	11/16/2017 12:00:00 AM
Client Sample ID:	HP-WC(COMP)	SDG No.:	LB91704
Lab Sample ID:	I6517-01	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	0.62		1	0.036		0.27	mg/Kg	11/20/2017	11/20/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/17/2017 12:00:00 AM
Project:	LB91704	Date Received:	11/17/2017 12:00:00 AM
Client Sample ID:	RT-4252-RT-3025-RT-2342	SDG No.:	LB91704
Lab Sample ID:	I6535-01	Matrix:	Solid
Level (low/med):	low	% Solid:	80.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.024	U	1	0.039		0.3	mg/Kg	11/20/2017	11/20/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/17/2017 12:00:00 AM
Project:	LB91704	Date Received:	11/17/2017 12:00:00 AM
Client Sample ID:	OILY-STONES	SDG No.:	LB91704
Lab Sample ID:	I6538-01	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0028	U	1	0.033		0.25	mg/Kg	11/20/2017	11/20/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/16/2017 12:00:00 AM
Project:	LB91704	Date Received:	11/17/2017 12:00:00 AM
Client Sample ID:	SAU-3-E(4-5)	SDG No.:	LB91704
Lab Sample ID:	I6548-01	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	0.2	J	1	0.038		0.29	mg/Kg	11/20/2017	11/20/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/16/2017 12:00:00 AM
Project:	LB91704	Date Received:	11/17/2017 12:00:00 AM
Client Sample ID:	SAU-3-E(7-8)	SDG No.:	LB91704
Lab Sample ID:	I6548-02	Matrix:	Solid
Level (low/med):	low	% Solid:	83.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.24	J	1	0.038		0.29	mg/Kg	11/20/2017	11/20/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/16/2017 12:00:00 AM
Project:	LB91704	Date Received:	11/17/2017 12:00:00 AM
Client Sample ID:	SAU-1-E(3-4)	SDG No.:	LB91704
Lab Sample ID:	I6548-03	Matrix:	Solid
Level (low/med):	low	% Solid:	82.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.093	J	1	0.039		0.3	mg/Kg	11/20/2017	11/20/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/16/2017 12:00:00 AM
Project:	LB91704	Date Received:	11/17/2017 12:00:00 AM
Client Sample ID:	SAU-1-E(7-8)	SDG No.:	LB91704
Lab Sample ID:	I6548-04	Matrix:	Solid
Level (low/med):	low	% Solid:	88.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.25	J	1	0.036		0.27	mg/Kg	11/20/2017	11/20/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/16/2017 12:00:00 AM
Project:	LB91704	Date Received:	11/17/2017 12:00:00 AM
Client Sample ID:	SAU-2-E(0-1)	SDG No.:	LB91704
Lab Sample ID:	I6548-05	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	0.048	J	1	0.035		0.27	mg/Kg	11/20/2017	11/20/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/16/2017 12:00:00 AM
Project:	LB91704	Date Received:	11/17/2017 12:00:00 AM
Client Sample ID:	SAU-2-E(4-5)	SDG No.:	LB91704
Lab Sample ID:	I6548-06	Matrix:	Solid
Level (low/med):	low	% Solid:	96.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.065	J	1	0.034		0.26	mg/Kg	11/20/2017	11/20/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/16/2017 12:00:00 AM
Project:	LB91704	Date Received:	11/17/2017 12:00:00 AM
Client Sample ID:	SAU-2-E(7-8)	SDG No.:	LB91704
Lab Sample ID:	I6548-07	Matrix:	Solid
Level (low/med):	low	% Solid:	89.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.016	U	1	0.035		0.26	mg/Kg	11/20/2017	11/20/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/16/2017 12:00:00 AM
Project:	LB91704	Date Received:	11/17/2017 12:00:00 AM
Client Sample ID:	SAU-4-E(0-1)	SDG No.:	LB91704
Lab Sample ID:	I6548-08	Matrix:	Solid
Level (low/med):	low	% Solid:	93.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.13	J	1	0.035		0.27	mg/Kg	11/20/2017	11/20/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/16/2017 12:00:00 AM
Project:	LB91704	Date Received:	11/17/2017 12:00:00 AM
Client Sample ID:	SAU-4-E(4-5)	SDG No.:	LB91704
Lab Sample ID:	I6548-09	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	-0.0046	U	1	0.037		0.28	mg/Kg	11/20/2017	11/20/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/16/2017 12:00:00 AM
Project:	LB91704	Date Received:	11/17/2017 12:00:00 AM
Client Sample ID:	SAU-4-E(7-8)	SDG No.:	LB91704
Lab Sample ID:	I6548-10	Matrix:	Solid
Level (low/med):	low	% Solid:	84.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.77		1	0.039		0.29	mg/Kg	11/20/2017	11/20/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	
Project:	LB91704	Date Received:	
Client Sample ID:	LOWPB104401	SDG No.:	LB91704
Lab Sample ID:	LOWPB104401	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	0.0093		1	0.003		0.005	mg/L		11/20/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	
Project:	LB91704	Date Received:	
Client Sample ID:	LOWPB104401	SDG No.:	LB91704
Lab Sample ID:	LOWPB104401	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
-----	-----------	-------	------	----	-----	-----	------------	-------	-----------	-----------	----------

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: LB91704

SDG No.: LB91704

Contract: _____ Lab Code: CHEM

Case No.: LB91704

SAS No.: LB91704

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		11/20/2017	14:50	LB91704
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		11/20/2017	14:57	LB91704
CCV3	Cyanide	0.24	0.25	96	0	90 - 110		11/20/2017	15:05	LB91704
CCV4	Cyanide	0.25	0.25	100	0	90 - 110		11/20/2017	15:12	LB91704



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91704

SDG No.: LB91704

Contract: _____

Lab Code: CHEM

Case No.: LB91704

SAS No.: LB91704

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00016	+/-0.005	U		0.005		11/20/2017	14:50	LB91704

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0	+/-0.005	U		0.005		11/20/2017	14:50	LB91704
CCB2	Cyanide	0	+/-0.005	U		0.005		11/20/2017	14:57	LB91704
CCB3	Cyanide	0.00011	+/-0.005	U		0.005		11/20/2017	15:05	LB91704
CCB4	Cyanide	-0.00015	+/-0.005	U		0.005		11/20/2017	15:12	LB91704



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91704

SDG No.: LB91704

Contract: Lab Code: CHEM

Case No.: LB91704

SAS No.: LB91704

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
-----------	---------	----------------	---------------------	--------------	-----	------	---	------------------	------------------	---------------



GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB91704

SDG No.: LB91704

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
PB104401BL	Cyanide	SOLID		Batch Number:		PB104401		Prep Date:	11/20/2017	
		-0.0092	<0.24	U		0.24		11/20/2017	14:50	LB91704
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB104403BL	Cyanide	SOLID		Batch Number:		PB104403		Prep Date:	11/20/2017	
		-0.013	<0.24	U		0.24		11/20/2017	15:05	LB91704



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91704 level: low sdg no.: LB91704
contract: lab code: CHEM case no.: LB91704 sas no.: LB91704
matrix: Solid sample id: I6300-05 client id: OR-01-111717MS
Percent Solids for Sample: 93.2 Spiked ID: I6300-05MS Percent Solids for Spike Sample: 93.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	0.26		0.035	U	2	13	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91704 level: low sdg no.: LB91704
contract: lab code: CHEM case no.: LB91704 sas no.: LB91704
matrix: Solid sample id: I6300-05 client id: OR-01-111717MSD
Percent Solids for Sample: 93.2 Spiked ID: I6300-05MSD Percent Solids for Spike Sample: 93.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	0.27		0.035	U	2.1	12.9	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91704 level: low sdg no.: LB91704
contract: lab code: CHEM case no.: LB91704 sas no.: LB91704
matrix: Solid sample id: I6548-01 client id: SAU-3-E(4-5)MS
Percent Solids for Sample: 85.6 Spiked ID: I6548-01MS Percent Solids for Spike Sample: 85.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.2		0.2	J	2.2	91		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91704 level: low sdg no.: LB91704
contract: lab code: CHEM case no.: LB91704 sas no.: LB91704
matrix: Solid sample id: I6548-01 client id: SAU-3-E(4-5)MSD
Percent Solids for Sample: 85.6 Spiked ID: I6548-01MSD Percent Solids for Spike Sample: 85.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.3		0.2	J	2.3	91		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91704 **Level:** LOW **SDG No.:** LB91704
Contract: **Lab Code:** CHEM **Case No.:** LB91704 **SAS No.:** LB91704
Matrix: Solid **Sample ID:** I6300-05 **Client ID:** OR-01-111717DUP
Percent Solids for Sample: 93.2 **Duplicate ID** I6300-05DUP **Percent Solids for Spike Sample:** 93.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.035	U	-0.0046	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91704 **Level:** LOW **SDG No.:** LB91704
Contract: **Lab Code:** CHEM **Case No.:** LB91704 **SAS No.:** LB91704
Matrix: Solid **Sample ID:** I6300-05MS **Client ID:** OR-01-111717MSD
Percent Solids for Sample: 93.2 **Duplicate ID** I6300-05MSD **Percent Solids for Spike Sample:** 93.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.26		0.27		4		

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

Client: LB91704 **Level:** LOW **SDG No.:** LB91704
Contract: **Lab Code:** CHEM **Case No.:** LB91704 **SAS No.:** LB91704
Matrix: Solid **Sample ID:** I6548-01 **Client ID:** SAU-3-E(4-5)DUP
Percent Solids for Sample: 85.6 **Duplicate ID** I6548-01DUP **Percent Solids for Spike Sample:** 85.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.2	J	0.2	J	0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91704 **Level:** LOW **SDG No.:** LB91704
Contract: **Lab Code:** CHEM **Case No.:** LB91704 **SAS No.:** LB91704
Matrix: Solid **Sample ID:** I6548-01MS **Client ID:** SAU-3-E(4-5)MSD
Percent Solids for Sample: 85.6 **Duplicate ID** I6548-01MSD **Percent Solids for Spike Sample:** 85.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.2		2.3		4		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91704

SDG No.: LB91704

Contract:

Lab Code: CHEM

Case No.: LB91704

SAS No.: LB91704

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104401BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91704

SDG No.: LB91704

Contract:

Lab Code: CHEM

Case No.: LB91704

SAS No.: LB91704

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104403BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	