

Daily Analysis Runlog For Sequence/QC Batch ID # LB89254

Review By		Review On				
SubDirectory		LB89254		Test : Cyanide		

STD. NAME	STD REF.#
ICAL Standard	WP56916,WP56917,WP56918,WP56919,WP56920,WP56921,WP56922,WP56929
ICV Standard	W1541
CCV Standard	WP56924
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP54521
Chk Standard	WP56923,WP55355,WP55836

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	08/03/17 14:07		OK
2	5.0PPBCN	5.0PPBCN	CAL2	08/03/17 14:07		OK
3	10PPBCN	10PPBCN	CAL3	08/03/17 14:07		OK
4	50PPBCN	50PPBCN	CAL4	08/03/17 14:07		OK
5	100PPBCN	100PPBCN	CAL5	08/03/17 14:07		OK
6	250PPBCN	250PPBCN	CAL6	08/03/17 14:07		OK
7	500PPBCN	500PPBCN	CAL7	08/03/17 14:07		OK
8	ICV1	ICV1	ICV	08/03/17 16:11		OK
9	ICB1	ICB1	ICB	08/03/17 16:11		OK
10	CCV1	CCV1	CCV	08/03/17 16:11		OK
11	CCB1	CCB1	CCB	08/03/17 16:11		OK
12	PB101238BL	PB101238BL	MB	08/03/17 16:11		OK
13	PB101238BS	PB101238BS	LCS	08/03/17 16:11		OK
14	LOWPB101238	LOWPB101238	SAM	08/03/17 16:11		OK
15	HIGHPB101238	HIGHPB101238	SAM	08/03/17 16:11		OK
16	I4555-04DUP	2013DUP	DUP	08/03/17 16:11		OK
17	I4555-04MS	2013MS	MS	08/03/17 16:11		OK
18	I4555-04MSD	2013MSD	MSD	08/03/17 16:11		OK
19	I4555-09	2043	SAM	08/03/17 16:19		OK
20	I4582-01	S1	SAM	08/03/17 16:19		OK
21	CCV2	CCV2	CCV	08/03/17 16:19		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB89254

Review By		Review On				
SubDirectory		LB89254		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP56916,WP56917,WP56918,WP56919,WP56920,WP56921,WP56922,WP56929				
ICV Standard		W1541				
CCV Standard		WP56924				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP56923,WP55355,WP55836				
22	CCB2	CCB2	CCB	08/03/17 16:19		OK
23	I4582-02	S2	SAM	08/03/17 16:19		OK
24	I4584-01	OK-01-080217	SAM	08/03/17 16:19		OK
25	I4585-01	OR-01-080217	SAM	08/03/17 16:19		OK
26	I4586-01	HARDWICK-SOIL-CO	SAM	08/03/17 16:19		OK
27	I4588-05	E2-CONCRETE-BAT	SAM	08/03/17 16:19		OK
28	I4588-06	E2-CONCRETE-BAT	SAM	08/03/17 16:19		OK
29	I4591-01	DRUM-1-2-COMP	SAM	08/03/17 16:19		OK
30	I4591-04	GRAVEL-PILE	SAM	08/03/17 16:26		OK
31	I4592-01	15-50-RT3460-RT42	SAM	08/03/17 16:26		OK
32	I4594-01	72-12000-R4	SAM	08/03/17 16:26		OK
33	CCV3	CCV3	CCV	08/03/17 16:26		OK
34	CCB3	CCB3	CCB	08/03/17 16:26		OK
35	PB101240BL	PB101240BL	MB	08/03/17 16:26		OK
36	PB101240BS	PB101240BS	LCS	08/03/17 16:26		OK
37	I4555-01	SV21074LM	SAM	08/03/17 16:26		OK
38	I4555-01DUP	SV21074LMDUP	DUP	08/03/17 16:26		OK
39	I4555-01MS	SV21074LMMS	MS	08/03/17 16:26		OK
40	I4555-01MSD	SV21074LMMSD	MSD	08/03/17 16:26		OK
41	I4555-04	2013	SAM	08/03/17 16:31		OK
42	CCV4	CCV4	CCV	08/03/17 16:31		OK
43	CCB4	CCB4	CCB	08/03/17 16:31		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB89254	Date Received:	
Client Sample ID:	HIGHPB101238	SDG No.:	LB89254
Lab Sample ID:	HIGHPB101238	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		08/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89254	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	SV21074LM	SDG No.:	LB89254
Lab Sample ID:	I4555-01	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	0.12		1	0.003		0.005	mg/L	08/03/2017	08/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89254	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	2013	SDG No.:	LB89254
Lab Sample ID:	I4555-04	Matrix:	Solid
Level (low/med):	low	% Solid:	91.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.055	J	1	0.035		0.26	mg/Kg	08/03/2017	08/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89254	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	2043	SDG No.:	LB89254
Lab Sample ID:	I4555-09	Matrix:	Solid
Level (low/med):	low	% Solid:	91.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0094	U	1	0.035		0.26	mg/Kg	08/03/2017	08/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89254	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	S1	SDG No.:	LB89254
Lab Sample ID:	I4582-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.05	J	1	0.036		0.27	mg/Kg	08/03/2017	08/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89254	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	S2	SDG No.:	LB89254
Lab Sample ID:	I4582-02	Matrix:	Solid
Level (low/med):	low	% Solid:	85.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.014	U	1	0.037		0.28	mg/Kg	08/03/2017	08/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89254	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	OK-01-080217	SDG No.:	LB89254
Lab Sample ID:	I4584-01	Matrix:	Solid
Level (low/med):	low	% Solid:	97.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.018	U	1	0.032		0.25	mg/Kg	08/03/2017	08/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89254	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	OR-01-080217	SDG No.:	LB89254
Lab Sample ID:	I4585-01	Matrix:	Solid
Level (low/med):	low	% Solid:	93.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.027	U	1	0.034		0.26	mg/Kg	08/03/2017	08/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89254	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	HARDWICK-SOIL-COMP	SDG No.:	LB89254
Lab Sample ID:	I4586-01	Matrix:	Solid
Level (low/med):	low	% Solid:	58.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.81		1	0.054		0.41	mg/Kg	08/03/2017	08/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89254	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	E2-CONCRETE-BATCH-16	SDG No.:	LB89254
Lab Sample ID:	I4588-05	Matrix:	Solid
Level (low/med):	low	% Solid:	94.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.051	J	1	0.034		0.25	mg/Kg	08/03/2017	08/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89254	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	E2-CONCRETE-BATCH-17	SDG No.:	LB89254
Lab Sample ID:	I4588-06	Matrix:	Solid
Level (low/med):	low	% Solid:	94.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0052	U	1	0.034		0.26	mg/Kg	08/03/2017	08/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89254	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	DRUM-1-2-COMP	SDG No.:	LB89254
Lab Sample ID:	I4591-01	Matrix:	Solid
Level (low/med):	low	% Solid:	40.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.039	U	1	0.079		0.6	mg/Kg	08/03/2017	08/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89254	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	GRAVEL-PILE	SDG No.:	LB89254
Lab Sample ID:	I4591-04	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	0.28	J	1	0.04		0.3	mg/Kg	08/03/2017	08/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89254	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	15-50-RT3460-RT4215-RT3451	SDG No.:	LB89254
Lab Sample ID:	I4592-01	Matrix:	Solid
Level (low/med):	low	% Solid:	85.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.019	U	1	0.037		0.28	mg/Kg	08/03/2017	08/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/2/2017 12:00:00 AM
Project:	LB89254	Date Received:	8/2/2017 12:00:00 AM
Client Sample ID:	72-12000-R4	SDG No.:	LB89254
Lab Sample ID:	I4594-01	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	0.038	J	1	0.037		0.28	mg/Kg	08/03/2017	08/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB89254	Date Received:	
Client Sample ID:	LOWPB101238	SDG No.:	LB89254
Lab Sample ID:	LOWPB101238	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		08/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB89254	Date Received:	
Client Sample ID:	LOWPB101238	SDG No.:	LB89254
Lab Sample ID:	LOWPB101238	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: LB89254

SDG No.: LB89254

Contract: _____ Lab Code: CHEM

Case No.: LB89254

SAS No.: LB89254

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		08/03/2017	16:11	LB89254
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		08/03/2017	16:19	LB89254
CCV3	Cyanide	0.24	0.25	96	0	90 - 110		08/03/2017	16:26	LB89254
CCV4	Cyanide	0.25	0.25	100	0	90 - 110		08/03/2017	16:31	LB89254



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89254 **SDG No.:** LB89254
Contract: **Lab Code:** CHEM **Case No.:** LB89254 **SAS No.:** LB89254

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.0012	+/-0.005	U		0.005		08/03/2017	16:11	LB89254



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89254

SDG No.: LB89254

Contract:

Lab Code: CHEM

Case No.: LB89254

SAS No.: LB89254

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00089	+/-0.005	U		0.005		08/03/2017	16:11	LB89254
CCB2	Cyanide	0.00094	+/-0.005	U		0.005		08/03/2017	16:19	LB89254
CCB3	Cyanide	0.00081	+/-0.005	U		0.005		08/03/2017	16:26	LB89254
CCB4	Cyanide	0.0012	+/-0.005	U		0.005		08/03/2017	16:31	LB89254



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89254

SDG No.: LB89254

Contract: Lab Code: CHEM

Case No.: LB89254

SAS No.: LB89254

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: LB89254

SDG No.: LB89254

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
PB101238BL	Cyanide	SOLID		Batch Number:		PB101238		Prep Date:	08/03/2017	
		0.033	<0.25	J		0.25		08/03/2017	16:11	LB89254
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB101240BL	Cyanide	WATER		Batch Number:		PB101240		Prep Date:	08/03/2017	
		0.00071	<0.005	U		0.005		08/03/2017	16:26	LB89254



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB89254 level: low sdg no.: LB89254
contract: lab code: CHEM case no.: LB89254 sas no.: LB89254
matrix: WATER sample id: I4555-01 client id: SV21074LMMS
Percent Solids for Sample: 0 Spiked ID: I4555-01MS 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	0.16		0.12		0.04	100		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB89254 level: low sdg no.: LB89254
contract: lab code: CHEM case no.: LB89254 sas no.: LB89254
matrix: WATER sample id: I4555-01 client id: SV21074LMMSD
Percent Solids for Sample: 0 Spiked ID: I4555-01MSD 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	0.16		0.12		0.04	100		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB89254 level: low sdg no.: LB89254
contract: lab code: CHEM case no.: LB89254 sas no.: LB89254
matrix: Solid sample id: I4555-04 client id: 2013MS
Percent Solids for Sample: 91.6 Spiked ID: I4555-04MS Percent Solids for Spike Sample: 91.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.055	J	2.1	97		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB89254 level: low sdg no.: LB89254
contract: lab code: CHEM case no.: LB89254 sas no.: LB89254
matrix: Solid sample id: I4555-04 client id: 2013MSD
Percent Solids for Sample: 91.6 Spiked ID: I4555-04MSD Percent Solids for Spike Sample: 91.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125		2	0.055	J	2.1	93		



GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB89254 Level: LOW SDG No.: LB89254
Contract: Lab Code: CHEM Case No.: LB89254 SAS No.: LB89254
Matrix: WATER Sample ID: I4555-01 Client ID: SV21074LMDUP
Percent Solids for Sample: 0 Duplicate ID I4555-01DUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.12		0.12		0		

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DUPLICATE SAMPLE SUMMARY

Client: LB89254 **Level:** LOW **SDG No.:** LB89254
Contract: **Lab Code:** CHEM **Case No.:** LB89254 **SAS No.:** LB89254
Matrix: WATER **Sample ID:** I4555-01MS **Client ID:** SV21074LMMSD
Percent Solids for Sample: 0 **Duplicate ID** I4555-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.16		0.16		0		

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DUPLICATE SAMPLE SUMMARY

Client: LB89254 **Level:** LOW **SDG No.:** LB89254
Contract: **Lab Code:** CHEM **Case No.:** LB89254 **SAS No.:** LB89254
Matrix: Solid **Sample ID:** I4555-04 **Client ID:** 2013DUP
Percent Solids for Sample: 91.6 **Duplicate ID** I4555-04DUP **Percent Solids for Spike Sample:** 91.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.055	J	0.12	J	74	*	

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89254 Level: LOW SDG No.: LB89254
Contract: _____ Lab Code: CHEM Case No.: LB89254 SAS No.: LB89254
Matrix: Solid Sample ID: I4555-04MS Client ID: 2013MSD
Percent Solids for Sample: 91.6 Duplicate ID I4555-04MSD Percent Solids for Spike Sample: 91.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.1			2	5		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89254

SDG No.: LB89254

Contract:

Lab Code: CHEM

Case No.: LB89254

SAS No.: LB89254

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB101238BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89254

SDG No.: LB89254

Contract:

Lab Code: CHEM

Case No.: LB89254

SAS No.: LB89254

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB101240BS Cyanide	mg/L	0.1	0.097		97	85 - 115	