

Daily Analysis Runlog For Sequence/QC Batch ID # LB93212

Review By		Review On				
SubDirectory		LB93212		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP61750,WP61751,WP61752,WP61753,WP61754,WP61755,WP61756				
ICV Standard		W1542				
CCV Standard		WP61757				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP61760,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	02/09/18 12:16		OK
2	5.0PPBCN	5.0PPBCN	CAL2	02/09/18 12:16		OK
3	10PPBCN	10PPBCN	CAL3	02/09/18 12:16		OK
4	50PPBCN	50PPBCN	CAL4	02/09/18 12:16		OK
5	100PPBCN	100PPBCN	CAL5	02/09/18 12:16		OK
6	250PPBCN	250PPBCN	CAL6	02/09/18 12:16		OK
7	500PPBCN	500PPBCN	CAL7	02/09/18 12:16		OK
8	ICV1	ICV1	ICV	02/09/18 16:18		OK
9	ICB1	ICB1	ICB	02/09/18 16:18		OK
10	CCV1	CCV1	CCV	02/09/18 16:18		OK
11	CCB1	CCB1	CCB	02/09/18 16:18		OK
12	PB106409BL	PB106409BL	MB	02/09/18 16:18		OK
13	PB106409BS	PB106409BS	LCS	02/09/18 16:18		OK
14	LOWPB106409	LOWPB106409	SAM	02/09/18 16:18		OK
15	HIGHPB106409	HIGHPB106409	SAM	02/09/18 16:18		OK
16	J1404-01	TR-05-020718	SAM	02/09/18 16:23		OK
17	J1404-01DUP	TR-05-020718DUP	DUP	02/09/18 16:23		OK
18	J1404-01MS	TR-05-020718MS	MS	02/09/18 16:23		OK
19	J1404-01MSD	TR-05-020718MSD	MSD	02/09/18 16:23		OK
20	J1475-11	COMP-1	SAM	02/09/18 16:23		OK
21	J1475-12	COMP-2	SAM	02/09/18 16:30		OK

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STD. NAME		STD REF.#				
ICAL Standard		WP61750,WP61751,WP61752,WP61753,WP61754,WP61755,WP61756				
ICV Standard		W1542				
CCV Standard		WP61757				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP61760,WP59958,WP60878				
22	CCV2	CCV2	CCV	02/09/18 16:30		OK
23	CCB2	CCB2	CCB	02/09/18 16:30		OK
24	J1476-01	GL-WC-01	SAM	02/09/18 16:30		OK
25	J1476-03	GL-WC-02	SAM	02/09/18 16:30		OK
26	J1476-05	GL-WC-03	SAM	02/09/18 16:30		OK
27	J1485-01	RO-201	SAM	02/09/18 16:30		OK
28	J1485-03	RO-215	SAM	02/09/18 16:30		OK
29	J1491-01	1-1-4-DENSE-GRAD	SAM	02/09/18 16:30		OK
30	J1493-01	1-1-4-DENSE-GRAD	SAM	02/09/18 16:30		OK
31	PB106427BL	PB106427BL	MB	02/09/18 16:30		OK
32	PB106427BS	PB106427BS	LCS	02/09/18 16:38		OK
33	J1499-01	RO-154	SAM	02/09/18 16:38		OK
34	CCV3	CCV3	CCV	02/09/18 16:38		OK
35	CCB3	CCB3	CCB	02/09/18 16:38		OK
36	J1499-01DUP	RO-154DUP	DUP	02/09/18 16:38		OK
37	J1507-01	VNJ-214	SAM	02/09/18 16:38		OK
38	J1510-03	MADISON-MH	SAM	02/09/18 16:38		OK
39	J1511-01	MM-1	SAM	02/09/18 16:38		OK
40	J1511-02	MM-2	SAM	02/09/18 16:38		OK
41	J1511-03	MM-3	SAM	02/09/18 16:45		OK
42	PB106428BL	PB106428BL	MB	02/09/18 16:45		OK
43	PB106428BS	PB106428BS	LCS	02/09/18 16:45		OK

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STD. NAME		STD REF.#				
ICAL Standard		WP61750,WP61751,WP61752,WP61753,WP61754,WP61755,WP61756				
ICV Standard		W1542				
CCV Standard		WP61757				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP61760,WP59958,WP60878				
44	CCV4	CCV4	CCV	02/09/18 16:45		OK
45	CCB4	CCB4	CCB	02/09/18 16:46		OK
46	J1512-01	RO-2334	SAM	02/09/18 16:46		OK
47	J1512-01DUP	RO-2334DUP	DUP	02/09/18 16:46		OK
48	J1512-01MS	RO-2334MS	MS	02/09/18 16:46		OK
49	J1512-01MSD	RO-2334MSD	MSD	02/09/18 16:46		OK
50	J1512-04	RO-3091	SAM	02/09/18 16:46		OK
51	J1512-07	RO-4252	SAM	02/09/18 16:46		OK
52	J1512-10	RO-4632	SAM	02/09/18 16:51		OK
53	J1492-01	1-1-4-DENSE-GRAD	SAM	02/09/18 16:51		OK
54	J1475-13	COMP-3	SAM	02/09/18 16:51		OK
55	J1501-01	CO-6817	SAM	02/09/18 16:51		OK
56	CCV5	CCV5	CCV	02/09/18 16:51		OK
57	CCB5	CCB5	CCB	02/09/18 16:51		OK
58	J1499-01MS	RO-154MS	MS	02/09/18 17:09		OK
59	J1499-01MSD	RO-154MSD	MSD	02/09/18 17:09		OK
60	CCV5	CCV5	CCV	02/09/18 17:09		OK
61	CCB5	CCB5	CCB	02/09/18 17:09		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB93212	Date Received:	
Client Sample ID:	HIGHPB106409	SDG No.:	LB93212
Lab Sample ID:	HIGHPB106409	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		02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/7/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/7/2018 12:00:00 AM
Client Sample ID:	TR-05-020718	SDG No.:	LB93212
Lab Sample ID:	J1404-01	Matrix:	Solid
Level (low/med):	low	% Solid:	84.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.34		1	0.038		0.29	mg/Kg	02/08/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/5/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/7/2018 12:00:00 AM
Client Sample ID:	COMP-1	SDG No.:	LB93212
Lab Sample ID:	J1475-11	Matrix:	Solid
Level (low/med):	low	% Solid:	79.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.039	U	1	0.041		0.31	mg/Kg	02/08/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/5/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/7/2018 12:00:00 AM
Client Sample ID:	COMP-2	SDG No.:	LB93212
Lab Sample ID:	J1475-12	Matrix:	Solid
Level (low/med):	low	% Solid:	84.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.068	J	1	0.038		0.29	mg/Kg	02/08/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/5/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/7/2018 12:00:00 AM
Client Sample ID:	COMP-3	SDG No.:	LB93212
Lab Sample ID:	J1475-13	Matrix:	Solid
Level (low/med):	low	% Solid:	81.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.041	J	1	0.039		0.3	mg/Kg	02/08/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/7/2018 12:00:00 AM
Client Sample ID:	GL-WC-01	SDG No.:	LB93212
Lab Sample ID:	J1476-01	Matrix:	Solid
Level (low/med):	low	% Solid:	61.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.14	J	1	0.051		0.39	mg/Kg	02/08/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/7/2018 12:00:00 AM
Client Sample ID:	GL-WC-02	SDG No.:	LB93212
Lab Sample ID:	J1476-03	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	0.15	J	1	0.045		0.34	mg/Kg	02/08/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/7/2018 12:00:00 AM
Client Sample ID:	GL-WC-03	SDG No.:	LB93212
Lab Sample ID:	J1476-05	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	0.12	J	1	0.055		0.42	mg/Kg	02/08/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/7/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/7/2018 12:00:00 AM
Client Sample ID:	RO-201	SDG No.:	LB93212
Lab Sample ID:	J1485-01	Matrix:	Solid
Level (low/med):	low	% Solid:	84.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.31		1	0.038		0.29	mg/Kg	02/08/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/7/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/7/2018 12:00:00 AM
Client Sample ID:	RO-215	SDG No.:	LB93212
Lab Sample ID:	J1485-03	Matrix:	Solid
Level (low/med):	low	% Solid:	84.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.23	J	1	0.039		0.29	mg/Kg	02/08/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/7/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/7/2018 12:00:00 AM
Client Sample ID:	1-1-4-DENSE-GRADE-AGG-RCA	SDG No.:	LB93212
Lab Sample ID:	J1491-01	Matrix:	Solid
Level (low/med):	low	% Solid:	82.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.36		1	0.039		0.29	mg/Kg	02/08/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/7/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/7/2018 12:00:00 AM
Client Sample ID:	1-1-4-DENSE-GRADE-AGG-RCA	SDG No.:	LB93212
Lab Sample ID:	J1492-01	Matrix:	Solid
Level (low/med):	low	% Solid:	73.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.55		1	0.043		0.33	mg/Kg	02/08/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/7/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/7/2018 12:00:00 AM
Client Sample ID:	1-1-4-DENSE-GRADE-AGG-RCA	SDG No.:	LB93212
Lab Sample ID:	J1493-01	Matrix:	Solid
Level (low/med):	low	% Solid:	76.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.48		1	0.041		0.31	mg/Kg	02/08/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/8/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/8/2018 12:00:00 AM
Client Sample ID:	RO-154	SDG No.:	LB93212
Lab Sample ID:	J1499-01	Matrix:	Solid
Level (low/med):	low	% Solid:	94.3

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		0.26	mg/Kg	02/09/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/8/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/8/2018 12:00:00 AM
Client Sample ID:	CO-6817	SDG No.:	LB93212
Lab Sample ID:	J1501-01	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	0.036	J	1	0.033		0.25	mg/Kg	02/09/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/8/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/8/2018 12:00:00 AM
Client Sample ID:	VNJ-214	SDG No.:	LB93212
Lab Sample ID:	J1507-01	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	0.068	J	1	0.036		0.27	mg/Kg	02/09/2018	02/09/2018	9012B

Report of Analysis

Client:		Date Collected:	2/8/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/8/2018 12:00:00 AM
Client Sample ID:	MADISON-MH	SDG No.:	LB93212
Lab Sample ID:	J1510-03	Matrix:	Solid
Level (low/med):	low	% Solid:	86

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.026	U	1	0.037		0.28	mg/Kg	02/09/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/8/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/8/2018 12:00:00 AM
Client Sample ID:	MM-1	SDG No.:	LB93212
Lab Sample ID:	J1511-01	Matrix:	Solid
Level (low/med):	low	% Solid:	86.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.036		0.27	mg/Kg	02/09/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/8/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/8/2018 12:00:00 AM
Client Sample ID:	MM-2	SDG No.:	LB93212
Lab Sample ID:	J1511-02	Matrix:	Solid
Level (low/med):	low	% Solid:	81.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.27	J	1	0.04		0.3	mg/Kg	02/09/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/8/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/8/2018 12:00:00 AM
Client Sample ID:	MM-3	SDG No.:	LB93212
Lab Sample ID:	J1511-03	Matrix:	Solid
Level (low/med):	low	% Solid:	84.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.28	J	1	0.038		0.29	mg/Kg	02/09/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/8/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/8/2018 12:00:00 AM
Client Sample ID:	RO-2334	SDG No.:	LB93212
Lab Sample ID:	J1512-01	Matrix:	Solid
Level (low/med):	low	% Solid:	83.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.042	J	1	0.039		0.29	mg/Kg	02/09/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/8/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/8/2018 12:00:00 AM
Client Sample ID:	RO-3091	SDG No.:	LB93212
Lab Sample ID:	J1512-04	Matrix:	Solid
Level (low/med):	low	% Solid:	92.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.056	J	1	0.035		0.27	mg/Kg	02/09/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/8/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/8/2018 12:00:00 AM
Client Sample ID:	RO-4252	SDG No.:	LB93212
Lab Sample ID:	J1512-07	Matrix:	Solid
Level (low/med):	low	% Solid:	89.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.074	J	1	0.036		0.27	mg/Kg	02/09/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/8/2018 12:00:00 AM
Project:	LB93212	Date Received:	2/8/2018 12:00:00 AM
Client Sample ID:	RO-4632	SDG No.:	LB93212
Lab Sample ID:	J1512-10	Matrix:	Solid
Level (low/med):	low	% Solid:	92.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.044	J	1	0.034		0.26	mg/Kg	02/09/2018	02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93212	Date Received:	
Client Sample ID:	LOWPB106409	SDG No.:	LB93212
Lab Sample ID:	LOWPB106409	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	0.01		1	0.003		0.005	mg/L		02/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93212	Date Received:	
Client Sample ID:	LOWPB106409	SDG No.:	LB93212
Lab Sample ID:	LOWPB106409	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: LB93212

SDG No.: LB93212

Contract: _____ Lab Code: CHEM

Case No.: LB93212

SAS No.: LB93212

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Cyanide	0.097	0.099	98		85 - 115		02/09/2018	16:18	LB93212



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93212

SDG No.: LB93212

Contract: _____ Lab Code: CHEM

Case No.: LB93212

SAS No.: LB93212

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Cyanide	0.24	0.25	96		90 - 110		02/09/2018	16:18	LB93212
CCV2	Cyanide	0.24	0.25	96		90 - 110		02/09/2018	16:30	LB93212
CCV3	Cyanide	0.24	0.25	96		90 - 110		02/09/2018	16:38	LB93212
CCV4	Cyanide	0.27	0.25	108		90 - 110		02/09/2018	16:45	LB93212
CCV5	Cyanide	0.25	0.25	100		90 - 110		02/09/2018	16:51	LB93212



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93212 **SDG No.:** LB93212
Contract: **Lab Code:** CHEM **Case No.:** LB93212 **SAS No.:** LB93212

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00064	+/-0.005	U		0.005		02/09/2018	16:18	LB93212



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93212

SDG No.: LB93212

Contract:

Lab Code: CHEM

Case No.: LB93212

SAS No.: LB93212

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00061	+/-0.005	U		0.005		02/09/2018	16:18	LB93212
CCB2	Cyanide	0.00044	+/-0.005	U		0.005		02/09/2018	16:30	LB93212
CCB3	Cyanide	0.00068	+/-0.005	U		0.005		02/09/2018	16:38	LB93212
CCB4	Cyanide	0.00051	+/-0.005	U		0.005		02/09/2018	16:46	LB93212
CCB5	Cyanide	0.0001	+/-0.005	U		0.005		02/09/2018	16:51	LB93212



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93212

SDG No.: LB93212

Contract: Lab Code: CHEM

Case No.: LB93212

SAS No.: LB93212

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: LB93212

SDG No.: LB93212

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
PB106409BL	Cyanide	SOLID		Batch Number:		PB106409		Prep Date:	02/08/2018	
		0.051	<0.25	J		0.25		02/09/2018	16:18	LB93212
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB106427BL	Cyanide	SOLID		Batch Number:		PB106427		Prep Date:	02/09/2018	
		0.014	<0.25	U		0.25		02/09/2018	16:30	LB93212
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB106428BL	Cyanide	SOLID		Batch Number:		PB106428		Prep Date:	02/09/2018	
		0.043	<0.25	J		0.25		02/09/2018	16:45	LB93212



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93212 level: low sdg no.: LB93212
contract: lab code: CHEM case no.: LB93212 sas no.: LB93212
matrix: Solid sample id: J1404-01 client id: TR-05-020718MS
Percent Solids for Sample: 84.8 Spiked ID: J1404-01MS Percent Solids for Spike Sample: 84.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.34		2.3	68	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93212 level: low sdg no.: LB93212
contract: lab code: CHEM case no.: LB93212 sas no.: LB93212
matrix: Solid sample id: J1404-01 client id: TR-05-020718MSD
Percent Solids for Sample: 84.8 Spiked ID: J1404-01MSD Percent Solids for Spike Sample: 84.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125		2	0.34		2.3	72	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93212 level: low sdg no.: LB93212
contract: lab code: CHEM case no.: LB93212 sas no.: LB93212
matrix: Solid sample id: J1499-01 client id: RO-154MS
Percent Solids for Sample: 94.3 Spiked ID: J1499-01MS Percent Solids for Spike Sample: 94.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.051	J	2.1	88		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93212 level: low sdg no.: LB93212
contract: lab code: CHEM case no.: LB93212 sas no.: LB93212
matrix: Solid sample id: J1499-01 client id: RO-154MSD
Percent Solids for Sample: 94.3 Spiked ID: J1499-01MSD Percent Solids for Spike Sample: 94.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.051	J	2.1	88		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93212 level: low sdg no.: LB93212
contract: lab code: CHEM case no.: LB93212 sas no.: LB93212
matrix: Solid sample id: J1512-01 client id: RO-2334MS
Percent Solids for Sample: 83.8 Spiked ID: J1512-01MS Percent Solids for Spike Sample: 83.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.042	J	2.3	81		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93212 level: low sdg no.: LB93212
contract: lab code: CHEM case no.: LB93212 sas no.: LB93212
matrix: Solid sample id: J1512-01 client id: RO-2334MSD
Percent Solids for Sample: 83.8 Spiked ID: J1512-01MSD Percent Solids for Spike Sample: 83.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.042	J	2.3	76		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93212 **Level:** LOW **SDG No.:** LB93212
Contract: **Lab Code:** CHEM **Case No.:** LB93212 **SAS No.:** LB93212
Matrix: Solid **Sample ID:** J1404-01 **Client ID:** TR-05-020718DUP
Percent Solids for Sample: 84.8 **Duplicate ID** J1404-01DUP **Percent Solids for Spike Sample:** 84.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.34		0.33		3		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93212 **Level:** LOW **SDG No.:** LB93212
Contract: **Lab Code:** CHEM **Case No.:** LB93212 **SAS No.:** LB93212
Matrix: Solid **Sample ID:** J1404-01MS **Client ID:** TR-05-020718MSD
Percent Solids for Sample: 84.8 **Duplicate ID** J1404-01MSD **Percent Solids for Spike Sample:** 84.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.9			2	5		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93212 **Level:** LOW **SDG No.:** LB93212
Contract: **Lab Code:** CHEM **Case No.:** LB93212 **SAS No.:** LB93212
Matrix: Solid **Sample ID:** J1499-01 **Client ID:** RO-154DUP
Percent Solids for Sample: 94.3 **Duplicate ID** J1499-01DUP **Percent Solids for Spike Sample:** 94.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.051	J	0.031	U	200.0	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93212 Level: LOW SDG No.: LB93212
Contract: Lab Code: CHEM Case No.: LB93212 SAS No.: LB93212
Matrix: Solid Sample ID: J1499-01MS Client ID: RO-154MSD
Percent Solids for Sample: 94.3 Duplicate ID J1499-01MSD Percent Solids for Spike Sample: 94.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.9		1.9		0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93212 **Level:** LOW **SDG No.:** LB93212
Contract: **Lab Code:** CHEM **Case No.:** LB93212 **SAS No.:** LB93212
Matrix: Solid **Sample ID:** J1512-01 **Client ID:** RO-2334DUP
Percent Solids for Sample: 83.8 **Duplicate ID** J1512-01DUP **Percent Solids for Spike Sample:** 83.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.042	J	0.031	U	200.0	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93212 **Level:** LOW **SDG No.:** LB93212
Contract: **Lab Code:** CHEM **Case No.:** LB93212 **SAS No.:** LB93212
Matrix: Solid **Sample ID:** J1512-01MS **Client ID:** RO-2334MSD
Percent Solids for Sample: 83.8 **Duplicate ID** J1512-01MSD **Percent Solids for Spike Sample:** 83.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.9		1.8		5		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93212

SDG No.: LB93212

Contract:

Lab Code: CHEM

Case No.: LB93212

SAS No.: LB93212

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106409BS Cyanide	mg/Kg	4.8	4.7		97.9	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93212

SDG No.: LB93212

Contract:

Lab Code: CHEM

Case No.: LB93212

SAS No.: LB93212

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106427BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93212

SDG No.: LB93212

Contract:

Lab Code: CHEM

Case No.: LB93212

SAS No.: LB93212

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106428BS Cyanide	mg/Kg	4.8	4.7		97.9	85 - 115	