

Daily Analysis Runlog For Sequence/QC Batch ID # LB91521

Review By		Review On				
SubDirectory		LB91521		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59537,WP59538,WP59539,WP59540,WP59541,WP59542,WP59543				
ICV Standard		W1541				
CCV Standard		WP59544				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59546				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/10/17 10:43		OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/10/17 10:43		OK
3	10PPBCN	10PPBCN	CAL3	11/10/17 10:43		OK
4	50PPBCN	50PPBCN	CAL4	11/10/17 10:43		OK
5	100PPBCN	100PPBCN	CAL5	11/10/17 10:43		OK
6	250PPBCN	250PPBCN	CAL6	11/10/17 10:43		OK
7	500PPBCN	500PPBCN	CAL7	11/10/17 10:43		OK
8	ICV1	ICV1	ICV	11/10/17 16:18		OK
9	ICB1	ICB1	ICB	11/10/17 16:18		OK
10	CCV1	CCV1	CCV	11/10/17 16:18		OK
11	CCB1	CCB1	CCB	11/10/17 16:18		OK
12	PB104160BL	PB104160BL	MB	11/10/17 16:18		OK
13	LOWPB104160	LOWPB104160	SAM	11/10/17 16:18		OK
14	HIGHPB104160	HIGHPB104160	SAM	11/10/17 16:26		OK
15	I6399-06	TP-12	SAM	11/10/17 16:26		OK
16	I6399-06DUP	TP-12DUP	DUP	11/10/17 16:26		OK
17	I6399-06MS	TP-12MS	MS	11/10/17 16:26		OK
18	I6399-06MSD	TP-12MSD	MSD	11/10/17 16:26		OK
19	I6399-11	TP-13-A-13-B	SAM	11/10/17 16:26		OK
20	I6399-17	TP-14	SAM	11/10/17 16:26		OK
21	CCV2	CCV2	CCV	11/10/17 16:26		OK

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ICV Standard		W1541				
CCV Standard		WP59544				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59546				
22	CCB2	CCB2	CCB	11/10/17 16:26		OK
23	I6399-22	TP-15	SAM	11/10/17 16:26		OK
24	I6404-01	W-1	SAM	11/10/17 16:26		OK
25	I6407-01	3091-4235	SAM	11/10/17 16:33		OK
26	I6407-04	4632	SAM	11/10/17 16:34		OK
27	I6407-06	2334	SAM	11/10/17 16:34		OK
28	I6409-01	MH-110917-01	SAM	11/10/17 16:34		OK
29	I6409-03	MH-110917-02-FREE	SAM	11/10/17 16:34		OK
30	I6419-01	LEW-1-E(7-8)	SAM	11/10/17 16:34		OK
31	I6419-02	LEW-2-E(1-2)	SAM	11/10/17 16:34		OK
32	I6419-03	LEW-2-E(4-5)	SAM	11/10/17 16:34		OK
33	CCV3	CCV3	CCV	11/10/17 16:34		OK
34	CCB3	CCB3	CCB	11/10/17 16:34		OK
35	I6419-04	LEW-2-E(6-7)	SAM	11/10/17 16:34		OK
36	PB104165BL	PB104165BL	MB	11/10/17 16:41		OK
37	PB104165BS	PB104165BS	LCS	11/10/17 16:41		OK
38	I6299-03	OK-01-110917	SAM	11/10/17 16:41		OK
39	I6299-03DUP	OK-01-110917DUP	DUP	11/10/17 16:41		OK
40	I6299-03MS	OK-01-110917MS	MS	11/10/17 16:41		OK
41	I6299-03MSD	OK-01-110917MSD	MSD	11/10/17 16:41		OK
42	I6301-01	JC-02-110917-A	SAM	11/10/17 16:41		OK
43	I6301-03	JC-02-110917-B	SAM	11/10/17 16:41		OK

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ICV Standard		W1541				
CCV Standard		WP59544				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59546				
44	I6301-05	JC-02-110917-C	SAM	11/10/17 16:41		OK
45	CCV4	CCV4	CCV	11/10/17 16:41		OK
46	CCB4	CCB4	CCB	11/10/17 16:41		OK
47	I6301-07	JC-02-110917-D	SAM	11/10/17 16:49		OK
48	I6301-09	JC-02-110917-E	SAM	11/10/17 16:49		OK
49	I6301-11	JC-02-110917-F	SAM	11/10/17 16:49		OK
50	I6301-13	JC-02-110917-G	SAM	11/10/17 16:49		OK
51	I6301-15	JC-02-110917-H	SAM	11/10/17 16:49		OK
52	I6396-01	LS-STONE	SAM	11/10/17 16:49		OK
53	I6396-05	LS-SOIL	SAM	11/10/17 16:49		OK
54	I6396-09	LS-CONCRETE	SAM	11/10/17 16:49		OK
55	PB104166BL	PB104166BL	MB	11/10/17 16:49		OK
56	PB104166BS	PB104166BS	LCS	11/10/17 16:49		OK
57	CCV5	CCV5	CCV	11/10/17 16:49		OK
58	CCB5	CCB5	CCB	11/10/17 16:56		OK
59	I6399-24	TP-12	SAM	11/10/17 16:56		OK
60	I6399-24DUP	TP-12DUP	DUP	11/10/17 16:56		OK
61	I6399-24MS	TP-12MS	MS	11/10/17 16:56		OK
62	I6399-24MSD	TP-12MSD	MSD	11/10/17 16:56		OK
63	I6399-27	TP-14	SAM	11/10/17 16:56		OK
64	I6407-08	FM1034	SAM	11/10/17 16:56		OK
65	I6409-05	MH-110917-01	SAM	11/10/17 16:56		OK

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ICV Standard		W1541				
CCV Standard		WP59544				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59546				
66	I6409-08	MH=110917-02-FREI	SAM	11/10/17 16:56		OK
67	I6413-01	FM728	SAM	11/10/17 16:56		OK
68	PB104160BS	PB104160BS	LCS	11/10/17 17:01		OK
69	CCV6	CCV6	CCV	11/10/17 17:25		OK
70	CCB6	CCB6	CCB	11/10/17 17:25		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB91521	Date Received:	
Client Sample ID:	HIGHPB104160	SDG No.:	LB91521
Lab Sample ID:	HIGHPB104160	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		11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/9/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/2/2017 12:00:00 AM
Client Sample ID:	OK-01-110917	SDG No.:	LB91521
Lab Sample ID:	I6299-03	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	0.0031	U	1	0.035		0.26	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/9/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	JC-02-110917-A	SDG No.:	LB91521
Lab Sample ID:	I6301-01	Matrix:	Solid
Level (low/med):	low	% Solid:	81.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.039		0.29	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/9/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	JC-02-110917-B	SDG No.:	LB91521
Lab Sample ID:	I6301-03	Matrix:	Solid
Level (low/med):	low	% Solid:	90.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.081	J	1	0.035		0.26	mg/Kg	11/10/2017	11/10/2017	9012B

Report of Analysis

Client:		Date Collected:	11/9/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	JC-02-110917-C	SDG No.:	LB91521
Lab Sample ID:	I6301-05	Matrix:	Solid
Level (low/med):	low	% Solid:	82.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.32		1	0.038		0.29	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/9/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	JC-02-110917-D	SDG No.:	LB91521
Lab Sample ID:	I6301-07	Matrix:	Solid
Level (low/med):	low	% Solid:	87.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.27		1	0.036		0.27	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/9/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	JC-02-110917-E	SDG No.:	LB91521
Lab Sample ID:	I6301-09	Matrix:	Solid
Level (low/med):	low	% Solid:	90.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.068	J	1	0.035		0.26	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/9/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	JC-02-110917-F	SDG No.:	LB91521
Lab Sample ID:	I6301-11	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	0.11	J	1	0.035		0.26	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/9/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	JC-02-110917-G	SDG No.:	LB91521
Lab Sample ID:	I6301-13	Matrix:	Solid
Level (low/med):	low	% Solid:	89

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.045	J	1	0.036		0.27	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/9/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	JC-02-110917-H	SDG No.:	LB91521
Lab Sample ID:	I6301-15	Matrix:	Solid
Level (low/med):	low	% Solid:	89.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.035		0.27	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/8/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/8/2017 12:00:00 AM
Client Sample ID:	LS-STONE	SDG No.:	LB91521
Lab Sample ID:	I6396-01	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	-0.027	U	1	0.032		0.24	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/8/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/8/2017 12:00:00 AM
Client Sample ID:	LS-SOIL	SDG No.:	LB91521
Lab Sample ID:	I6396-05	Matrix:	Solid
Level (low/med):	low	% Solid:	89.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0078	U	1	0.036		0.27	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/8/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/8/2017 12:00:00 AM
Client Sample ID:	LS-CONCRETE	SDG No.:	LB91521
Lab Sample ID:	I6396-09	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	-0.021	U	1	0.032		0.24	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/7/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/8/2017 12:00:00 AM
Client Sample ID:	TP-12	SDG No.:	LB91521
Lab Sample ID:	I6399-06	Matrix:	Solid
Level (low/med):	low	% Solid:	73

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0069	U	1	0.044		0.33	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/7/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/8/2017 12:00:00 AM
Client Sample ID:	TP-13-A-13-B	SDG No.:	LB91521
Lab Sample ID:	I6399-11	Matrix:	Solid
Level (low/med):	low	% Solid:	90.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.01	U	1	0.035		0.27	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/7/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/8/2017 12:00:00 AM
Client Sample ID:	TP-14	SDG No.:	LB91521
Lab Sample ID:	I6399-17	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	0.015	U	1	0.037		0.28	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/7/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/8/2017 12:00:00 AM
Client Sample ID:	TP-15	SDG No.:	LB91521
Lab Sample ID:	I6399-22	Matrix:	Solid
Level (low/med):	low	% Solid:	78.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.013	U	1	0.04		0.31	mg/Kg	11/10/2017	11/10/2017	9012B



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Client:		Date Collected:	11/7/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/8/2017 12:00:00 AM
Client Sample ID:	TP-12	SDG No.:	LB91521
Lab Sample ID:	I6399-24	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	0.0036	J	1	0.003		0.005	mg/L	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/7/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/8/2017 12:00:00 AM
Client Sample ID:	TP-14	SDG No.:	LB91521
Lab Sample ID:	I6399-27	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	0.00092	U	1	0.003		0.005	mg/L	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/8/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/8/2017 12:00:00 AM
Client Sample ID:	W-1	SDG No.:	LB91521
Lab Sample ID:	I6404-01	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	0.013	U	1	0.034		0.25	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/9/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	3091-4235	SDG No.:	LB91521
Lab Sample ID:	I6407-01	Matrix:	Solid
Level (low/med):	low	% Solid:	80.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.022	U	1	0.04		0.3	mg/Kg	11/10/2017	11/10/2017	9012B

Report of Analysis

Client:		Date Collected:	11/9/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	4632	SDG No.:	LB91521
Lab Sample ID:	I6407-04	Matrix:	Solid
Level (low/med):	low	% Solid:	79.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.28	J	1	0.039		0.3	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/9/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	2334	SDG No.:	LB91521
Lab Sample ID:	I6407-06	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	0.55		1	0.038		0.28	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/9/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	FM1034	SDG No.:	LB91521
Lab Sample ID:	I6407-08	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	0.00028	U	1	0.003		0.005	mg/L	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/9/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	MH-110917-01	SDG No.:	LB91521
Lab Sample ID:	I6409-01	Matrix:	Solid
Level (low/med):	low	% Solid:	74.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.9		1	0.043		0.33	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/9/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	MH-110917-02-FREEZE-PIT	SDG No.:	LB91521
Lab Sample ID:	I6409-03	Matrix:	Solid
Level (low/med):	low	% Solid:	85

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	J	1	0.037		0.28	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/9/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	MH-110917-01	SDG No.:	LB91521
Lab Sample ID:	I6409-05	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	U	1	0.003		0.005	mg/L	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/9/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	MH=110917-02-FREEZE-PIT	SDG No.:	LB91521
Lab Sample ID:	I6409-08	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	0.00062	U	1	0.003		0.005	mg/L	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/9/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	FM728	SDG No.:	LB91521
Lab Sample ID:	I6413-01	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	0.00055	U	1	0.003		0.005	mg/L	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/8/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	LEW-1-E(7-8)	SDG No.:	LB91521
Lab Sample ID:	I6419-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.037	U	1	0.036		0.27	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/8/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	LEW-2-E(1-2)	SDG No.:	LB91521
Lab Sample ID:	I6419-02	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	0.21	J	1	0.035		0.26	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/8/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	LEW-2-E(4-5)	SDG No.:	LB91521
Lab Sample ID:	I6419-03	Matrix:	Solid
Level (low/med):	low	% Solid:	90.9

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		0.26	mg/Kg	11/10/2017	11/10/2017	9012B

Report of Analysis

Client:		Date Collected:	11/8/2017 12:00:00 AM
Project:	LB91521	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	LEW-2-E(6-7)	SDG No.:	LB91521
Lab Sample ID:	I6419-04	Matrix:	Solid
Level (low/med):	low	% Solid:	92

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.035		0.27	mg/Kg	11/10/2017	11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB91521	Date Received:	
Client Sample ID:	LOWPB104160	SDG No.:	LB91521
Lab Sample ID:	LOWPB104160	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	0.0087		1	0.003		0.005	mg/L		11/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB91521	Date Received:	
Client Sample ID:	LOWPB104160	SDG No.:	LB91521
Lab Sample ID:	LOWPB104160	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: LB91521

SDG No.: LB91521

Contract: _____

Lab Code: CHEM

Case No.: LB91521

SAS No.: LB91521

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
ICV1	Cyanide	0.097	0.099	98	0	85 - 115		11/10/2017	16:18	LB91521

GENCHEM**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Client: LB91521 **SDG No.:** LB91521
Contract: _____ **Lab Code:** CHEM **Case No.:** LB91521 **SAS No.:** LB91521
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		11/10/2017	16:18	LB91521
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		11/10/2017	16:26	LB91521
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		11/10/2017	16:34	LB91521
CCV4	Cyanide	0.25	0.25	100	0	90 - 110		11/10/2017	16:41	LB91521
CCV5	Cyanide	0.25	0.25	100	0	90 - 110		11/10/2017	16:49	LB91521
CCV6	Cyanide	0.26	0.25	104	0	90 - 110		11/10/2017	17:25	LB91521



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91521 **SDG No.:** LB91521
Contract: **Lab Code:** CHEM **Case No.:** LB91521 **SAS No.:** LB91521

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00079	+/-0.005	U		0.005		11/10/2017	16:18	LB91521



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91521

SDG No.: LB91521

Contract:

Lab Code: CHEM

Case No.: LB91521

SAS No.: LB91521

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00039	+/-0.005	U		0.005		11/10/2017	16:18	LB91521
CCB2	Cyanide	-0.00076	+/-0.005	U		0.005		11/10/2017	16:26	LB91521
CCB3	Cyanide	-0.00045	+/-0.005	U		0.005		11/10/2017	16:34	LB91521
CCB4	Cyanide	-0.00025	+/-0.005	U		0.005		11/10/2017	16:41	LB91521
CCB5	Cyanide	-0.00099	+/-0.005	U		0.005		11/10/2017	16:56	LB91521
CCB6	Cyanide	-0.00064	+/-0.005	U		0.005		11/10/2017	17:25	LB91521



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91521

SDG No.: LB91521

Contract: Lab Code: CHEM

Case No.: LB91521

SAS No.: LB91521

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: LB91521

SDG No.: LB91521

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
PB104160BL	Cyanide	SOLID		Batch Number:		PB104160		Prep Date:	11/10/2017	
		-0.037	<0.25	U		0.25		11/10/2017	16:18	LB91521
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB104165BL	Cyanide	SOLID		Batch Number:		PB104165		Prep Date:	11/10/2017	
		-0.034	<0.25	U		0.25		11/10/2017	16:41	LB91521
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB104166BL	Cyanide	WATER		Batch Number:		PB104166		Prep Date:	11/10/2017	
		-0.00066	<0.005	U		0.005		11/10/2017	16:49	LB91521



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91521 level: low sdg no.: LB91521
contract: lab code: CHEM case no.: LB91521 sas no.: LB91521
matrix: Solid sample id: I6299-03 client id: OK-01-110917MS
Percent Solids for Sample: 92.8 Spiked ID: I6299-03MS Percent Solids for Spike Sample: 92.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.4		0.035	U	2.1	114.3		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91521 level: low sdg no.: LB91521
contract: lab code: CHEM case no.: LB91521 sas no.: LB91521
matrix: Solid sample id: I6299-03 client id: OK-01-110917MSD
Percent Solids for Sample: 92.8 Spiked ID: I6299-03MSD Percent Solids for Spike Sample: 92.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.4		0.035	U	2.1	114.3		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91521 level: low sdg no.: LB91521
contract: lab code: CHEM case no.: LB91521 sas no.: LB91521
matrix: Solid sample id: I6399-06 client id: TP-12MS
Percent Solids for Sample: 73 Spiked ID: I6399-06MS Percent Solids for Spike Sample: 73

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	0.35		0.044	U	2.7	13	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91521 level: low sdg no.: LB91521
contract: lab code: CHEM case no.: LB91521 sas no.: LB91521
matrix: Solid sample id: I6399-06 client id: TP-12MSD
Percent Solids for Sample: 73 Spiked ID: I6399-06MSD Percent Solids for Spike Sample: 73

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	0.32	J	0.044	U	2.7	11.9	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91521 level: low sdg no.: LB91521
contract: lab code: CHEM case no.: LB91521 sas no.: LB91521
matrix: WATER sample id: I6399-24 client id: TP-12MS
Percent Solids for Sample: 0 Spiked ID: I6399-24MS 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	0.038		0.0036	J	0.04	86		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91521 level: low sdg no.: LB91521
contract: lab code: CHEM case no.: LB91521 sas no.: LB91521
matrix: WATER sample id: I6399-24 client id: TP-12MSD
Percent Solids for Sample: 0 Spiked ID: I6399-24MSD 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	0.038		0.0036	J	0.04	86		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91521 **Level:** LOW **SDG No.:** LB91521
Contract: **Lab Code:** CHEM **Case No.:** LB91521 **SAS No.:** LB91521
Matrix: Solid **Sample ID:** I6299-03 **Client ID:** OK-01-110917DUP
Percent Solids for Sample: 92.8 **Duplicate ID** I6299-03DUP **Percent Solids for Spike Sample:** 92.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.035	U	0.0027	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91521 **Level:** LOW **SDG No.:** LB91521
Contract: **Lab Code:** CHEM **Case No.:** LB91521 **SAS No.:** LB91521
Matrix: Solid **Sample ID:** I6299-03MS **Client ID:** OK-01-110917MSD
Percent Solids for Sample: 92.8 **Duplicate ID** I6299-03MSD **Percent Solids for Spike Sample:** 92.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.4		2.4		0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91521 **Level:** LOW **SDG No.:** LB91521
Contract: **Lab Code:** CHEM **Case No.:** LB91521 **SAS No.:** LB91521
Matrix: Solid **Sample ID:** I6399-06 **Client ID:** TP-12DUP
Percent Solids for Sample: 73 **Duplicate ID** I6399-06DUP **Percent Solids for Spike Sample:** 73

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.044	U	-0.013	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91521 **Level:** LOW **SDG No.:** LB91521
Contract: **Lab Code:** CHEM **Case No.:** LB91521 **SAS No.:** LB91521
Matrix: Solid **Sample ID:** I6399-06MS **Client ID:** TP-12MSD
Percent Solids for Sample: 73 **Duplicate ID** I6399-06MSD **Percent Solids for Spike Sample:** 73

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.35		0.32	J	9		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91521 **Level:** LOW **SDG No.:** LB91521
Contract: **Lab Code:** CHEM **Case No.:** LB91521 **SAS No.:** LB91521
Matrix: WATER **Sample ID:** I6399-24 **Client ID:** TP-12DUP
Percent Solids for Sample: 0 **Duplicate ID** I6399-24DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.0036	J	0.0038	J	5		



GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91521 Level: LOW SDG No.: LB91521
Contract: Lab Code: CHEM Case No.: LB91521 SAS No.: LB91521
Matrix: WATER Sample ID: I6399-24MS Client ID: TP-12MSD
Percent Solids for Sample: 0 Duplicate ID I6399-24MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.038		0.038		0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91521

SDG No.: LB91521

Contract:

Lab Code: CHEM

Case No.: LB91521

SAS No.: LB91521

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104160BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91521 SDG No.: LB91521
Contract: Lab Code: CHEM Case No.: LB91521 SAS No.: LB91521

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104165BS Cyanide	mg/Kg	4.9	4.6		93.9	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91521

SDG No.: LB91521

Contract:

Lab Code: CHEM

Case No.: LB91521

SAS No.: LB91521

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104166BS Cyanide	mg/L	0.1	0.097		97	85 - 115	