

Daily Analysis Runlog For Sequence/QC Batch ID # LB90326

Review By		Review On				
SubDirectory		LB90326		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58279,WP58280,WP58281,WP58282,WP58283,WP58284,WP58277				
ICV Standard		WP58286				
CCV Standard		WP58287				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55355,WP55836,WP58285				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	09/26/17 13:53		OK
2	5.0PPBCN	5.0PPBCN	CAL2	09/26/17 13:53		OK
3	10PPBCN	10PPBCN	CAL3	09/26/17 13:54		OK
4	50PPBCN	50PPBCN	CAL4	09/26/17 13:54		OK
5	100PPBCN	100PPBCN	CAL5	09/26/17 13:54		OK
6	250PPBCN	250PPBCN	CAL6	09/26/17 13:54		OK
7	500PPBCN	500PPBCN	CAL7	09/26/17 13:54		OK
8	ICV1	ICV1	ICV	09/26/17 14:40		OK
9	ICB1	ICB1	ICB	09/26/17 14:40		OK
10	CCV1	CCV1	CCV	09/26/17 14:40		OK
11	CCB1	CCB1	CCB	09/26/17 14:40		OK
12	PB102572BL	PB102572BL	MB	09/26/17 14:40		OK
13	PB102572BS	PB102572BS	LCS	09/26/17 14:40		OK
14	LOWPB102572	LOWPB102572	SAM	09/26/17 14:48		OK
15	HIGHPB102572	HIGHPB102572	SAM	09/26/17 14:48		OK
16	I5362-01	SP-2-A-COMP	SAM	09/26/17 14:48		OK
17	I5362-01DUP	SP-2-A-COMPDUP	DUP	09/26/17 14:48		OK
18	I5362-01MS	SP-2-A-COMPMS	MS	09/26/17 14:48		OK
19	I5362-01MSD	SP-2-A-COMPMSD	MSD	09/26/17 14:48		OK
20	I5362-03	SP-2-B-COMP	SAM	09/26/17 14:48		OK
21	I5362-05	SP-2-C-COMP	SAM	09/26/17 14:48		OK

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ICAL Standard		WP58279,WP58280,WP58281,WP58282,WP58283,WP58284,WP58277				
ICV Standard		WP58286				
CCV Standard		WP58287				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55355,WP55836,WP58285				
22	CCV2	CCV2	CCV	09/26/17 14:48		OK
23	CCB2	CCB2	CCB	09/26/17 14:55		OK
24	I5363-01	SP-3-A-COMP	SAM	09/26/17 14:55		OK
25	I5363-03	SP-3-B-COMP	SAM	09/26/17 14:55		OK
26	I5363-05	SP-3-C-COMP	SAM	09/26/17 14:55		OK
27	I5363-07	SP-3-D-COMP	SAM	09/26/17 14:55		OK
28	I5363-09	SP-3-E-COMP	SAM	09/26/17 14:55		OK
29	I5363-11	SP-3-F-COMP	SAM	09/26/17 14:55		OK
30	I5363-15	SP-3-H-COMP	SAM	09/26/17 14:55		OK
31	PB102594BL	PB102594BL	MB	09/26/17 14:55		OK
32	PB102594BS	PB102594BS	LCS	09/26/17 14:55		OK
33	CCV3	CCV3	CCV	09/26/17 15:03		OK
34	CCB3	CCB3	CCB	09/26/17 15:03		OK
35	I5380-01	SU-04-092217	SAM	09/26/17 15:03		OK
36	I5380-01DUP	SU-04-092217DUP	DUP	09/26/17 15:03		OK
37	I5380-01MS	SU-04-092217MS	MS	09/26/17 15:03		OK
38	I5380-01MSD	SU-04-092217MSD	MSD	09/26/17 15:03		OK
39	I5388-01	FK-PS-01-016	SAM	09/26/17 15:03		OK
40	I5391-01	FK-PS-01-015	SAM	09/26/17 15:03		OK
41	I5394-01	15-50	SAM	09/26/17 15:03		OK
42	I5394-04	20-41	SAM	09/26/17 15:03		OK
43	I5394-07	RT-3992	SAM	09/26/17 15:03		OK

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SubDirectory		Test :				
LB90326		Cyanide				
STD. NAME		STD REF.#				
ICAL Standard		WP58279,WP58280,WP58281,WP58282,WP58283,WP58284,WP58277				
ICV Standard		WP58286				
CCV Standard		WP58287				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55355,WP55836,WP58285				
44	I5395-01	TP-5-(0-5)	SAM	09/26/17 15:10		OK
45	CCV4	CCV4	CCV	09/26/17 15:10		OK
46	CCB4	CCB4	CCB	09/26/17 15:10		OK
47	I5395-04	TP-4-(0-5)	SAM	09/26/17 15:10		OK
48	I5395-07	TP-3-(0-5)	SAM	09/26/17 15:10		OK
49	I5395-10	TP-2-(0-5)	SAM	09/26/17 15:10		OK
50	I5395-13	TP-1-(0-5)	SAM	09/26/17 15:10		OK
51	I5395-16	TP-6-(0-5)	SAM	09/26/17 15:10		OK
52	I5363-13	SP-3-G-COMP	SAM	09/26/17 15:33		OK
53	CCV5	CCV5	CCV	09/26/17 15:33		OK
54	CCB5	CCB5	CCB	09/26/17 15:33		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB90326	Date Received:	
Client Sample ID:	HIGHPB102572	SDG No.:	LB90326
Lab Sample ID:	HIGHPB102572	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		09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/21/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/21/2017 12:00:00 AM
Client Sample ID:	SP-2-A-COMP	SDG No.:	LB90326
Lab Sample ID:	I5362-01	Matrix:	Solid
Level (low/med):	low	% Solid:	83.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.046	J	1	0.038		0.29	mg/Kg	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/21/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/21/2017 12:00:00 AM
Client Sample ID:	SP-2-B-COMP	SDG No.:	LB90326
Lab Sample ID:	I5362-03	Matrix:	Solid
Level (low/med):	low	% Solid:	76.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.15	J	1	0.041		0.31	mg/Kg	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/21/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/21/2017 12:00:00 AM
Client Sample ID:	SP-2-C-COMP	SDG No.:	LB90326
Lab Sample ID:	I5362-05	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	0.0074	U	1	0.036		0.27	mg/Kg	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/21/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/21/2017 12:00:00 AM
Client Sample ID:	SP-3-A-COMP	SDG No.:	LB90326
Lab Sample ID:	I5363-01	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	0.003	U	1	0.036		0.27	mg/Kg	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/21/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/21/2017 12:00:00 AM
Client Sample ID:	SP-3-B-COMP	SDG No.:	LB90326
Lab Sample ID:	I5363-03	Matrix:	Solid
Level (low/med):	low	% Solid:	88.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0017	U	1	0.036		0.27	mg/Kg	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/21/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/21/2017 12:00:00 AM
Client Sample ID:	SP-3-C-COMP	SDG No.:	LB90326
Lab Sample ID:	I5363-05	Matrix:	Solid
Level (low/med):	low	% Solid:	88

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.012	U	1	0.036		0.28	mg/Kg	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/21/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/21/2017 12:00:00 AM
Client Sample ID:	SP-3-D-COMP	SDG No.:	LB90326
Lab Sample ID:	I5363-07	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	0.079	J	1	0.036		0.27	mg/Kg	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/21/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/21/2017 12:00:00 AM
Client Sample ID:	SP-3-E-COMP	SDG No.:	LB90326
Lab Sample ID:	I5363-09	Matrix:	Solid
Level (low/med):	low	% Solid:	87.2

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		0.28	mg/Kg	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/21/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/21/2017 12:00:00 AM
Client Sample ID:	SP-3-F-COMP	SDG No.:	LB90326
Lab Sample ID:	I5363-11	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	0.068	J	1	0.036		0.27	mg/Kg	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/21/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/21/2017 12:00:00 AM
Client Sample ID:	SP-3-G-COMP	SDG No.:	LB90326
Lab Sample ID:	I5363-13	Matrix:	Solid
Level (low/med):	low	% Solid:	87

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.076	J	1	0.036		0.28	mg/Kg	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/21/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/21/2017 12:00:00 AM
Client Sample ID:	SP-3-H-COMP	SDG No.:	LB90326
Lab Sample ID:	I5363-15	Matrix:	Solid
Level (low/med):	low	% Solid:	87.1

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	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/22/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/22/2017 12:00:00 AM
Client Sample ID:	SU-04-092217	SDG No.:	LB90326
Lab Sample ID:	I5380-01	Matrix:	Solid
Level (low/med):	low	% Solid:	87.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.04	U	1	0.037		0.28	mg/Kg	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/22/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/22/2017 12:00:00 AM
Client Sample ID:	FK-PS-01-016	SDG No.:	LB90326
Lab Sample ID:	I5388-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0031	U	1	0.034		0.26	mg/Kg	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/22/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/22/2017 12:00:00 AM
Client Sample ID:	FK-PS-01-015	SDG No.:	LB90326
Lab Sample ID:	I5391-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.01	U	1	0.034		0.26	mg/Kg	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/22/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/22/2017 12:00:00 AM
Client Sample ID:	15-50	SDG No.:	LB90326
Lab Sample ID:	I5394-01	Matrix:	Solid
Level (low/med):	low	% Solid:	96.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0026	U	1	0.033		0.25	mg/Kg	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/22/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/22/2017 12:00:00 AM
Client Sample ID:	20-41	SDG No.:	LB90326
Lab Sample ID:	I5394-04	Matrix:	Solid
Level (low/med):	low	% Solid:	95.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0012	U	1	0.033		0.25	mg/Kg	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/22/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/22/2017 12:00:00 AM
Client Sample ID:	RT-3992	SDG No.:	LB90326
Lab Sample ID:	I5394-07	Matrix:	Solid
Level (low/med):	low	% Solid:	96

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0035	U	1	0.033		0.25	mg/Kg	09/25/2017	09/26/2017	9012B

Report of Analysis

Client:		Date Collected:	9/22/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/22/2017 12:00:00 AM
Client Sample ID:	TP-5-(0-5)	SDG No.:	LB90326
Lab Sample ID:	I5395-01	Matrix:	Solid
Level (low/med):	low	% Solid:	79.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.00089	U	1	0.04		0.3	mg/Kg	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/22/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/22/2017 12:00:00 AM
Client Sample ID:	TP-4-(0-5)	SDG No.:	LB90326
Lab Sample ID:	I5395-04	Matrix:	Solid
Level (low/med):	low	% Solid:	81.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.016	U	1	0.039		0.3	mg/Kg	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/22/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/22/2017 12:00:00 AM
Client Sample ID:	TP-3-(0-5)	SDG No.:	LB90326
Lab Sample ID:	I5395-07	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	-0.014	U	1	0.037		0.28	mg/Kg	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/22/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/22/2017 12:00:00 AM
Client Sample ID:	TP-2-(0-5)	SDG No.:	LB90326
Lab Sample ID:	I5395-10	Matrix:	Solid
Level (low/med):	low	% Solid:	84.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0091	U	1	0.038		0.28	mg/Kg	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/22/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/22/2017 12:00:00 AM
Client Sample ID:	TP-1-(0-5)	SDG No.:	LB90326
Lab Sample ID:	I5395-13	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	-0.057	U	1	0.037		0.28	mg/Kg	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/22/2017 12:00:00 AM
Project:	LB90326	Date Received:	9/22/2017 12:00:00 AM
Client Sample ID:	TP-6-(0-5)	SDG No.:	LB90326
Lab Sample ID:	I5395-16	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	-0.021	U	1	0.036		0.27	mg/Kg	09/25/2017	09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB90326	Date Received:	
Client Sample ID:	LOWPB102572	SDG No.:	LB90326
Lab Sample ID:	LOWPB102572	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	0.0092		1	0.003		0.005	mg/L		09/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB90326	Date Received:	
Client Sample ID:	LOWPB102572	SDG No.:	LB90326
Lab Sample ID:	LOWPB102572	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: LB90326

SDG No.: LB90326

Contract: _____ Lab Code: CHEM

Case No.: LB90326

SAS No.: LB90326

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		09/26/2017	14:40	LB90326
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		09/26/2017	14:48	LB90326
CCV3	Cyanide	0.24	0.25	96	0	90 - 110		09/26/2017	15:03	LB90326
CCV4	Cyanide	0.24	0.25	96	0	90 - 110		09/26/2017	15:10	LB90326
CCV5	Cyanide	0.26	0.25	104	0	90 - 110		09/26/2017	15:33	LB90326



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90326

SDG No.: LB90326

Contract: _____

Lab Code: CHEM

Case No.: LB90326

SAS No.: LB90326

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00062	+/-0.005	U		0.005		09/26/2017	14:40	LB90326



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90326

SDG No.: LB90326

Contract:

Lab Code: CHEM

Case No.: LB90326

SAS No.: LB90326

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00026	+/-0.005	U		0.005		09/26/2017	14:40	LB90326
CCB2	Cyanide	-0	+/-0.005	U		0.005		09/26/2017	14:55	LB90326
CCB3	Cyanide	-0.00011	+/-0.005	U		0.005		09/26/2017	15:03	LB90326
CCB4	Cyanide	-0.00034	+/-0.005	U		0.005		09/26/2017	15:10	LB90326
CCB5	Cyanide	-0	+/-0.005	U		0.005		09/26/2017	15:33	LB90326



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB90326

SDG No.:

LB90326

Contract:

Lab Code:

CHEM

Case No.:

LB90326

SAS No.:

LB90326

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: LB90326

SDG No.: LB90326

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
PB102572BL	Cyanide	SOLID		Batch Number:		PB102572		Prep Date:	09/25/2017	
		0.0017	<0.24	U		0.24		09/26/2017	14:40	LB90326
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB102594BL	Cyanide	SOLID		Batch Number:		PB102594		Prep Date:	09/25/2017	
		-0.005	<0.24	U		0.24		09/26/2017	14:55	LB90326



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90326 level: low sdg no.: LB90326
contract: lab code: CHEM case no.: LB90326 sas no.: LB90326
matrix: Solid sample id: I5362-01 client id: SP-2-A-COMPMS
Percent Solids for Sample: 83.7 Spiked ID: I5362-01MS Percent Solids for Spike Sample: 83.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2		0.046	J	2.3	85		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90326 level: low sdg no.: LB90326
contract: lab code: CHEM case no.: LB90326 sas no.: LB90326
matrix: Solid sample id: I5362-01 client id: SP-2-A-COMPMSD
Percent Solids for Sample: 83.7 Spiked ID: I5362-01MSD Percent Solids for Spike Sample: 83.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125		2	0.046	J	2.3	85		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90326 level: low sdg no.: LB90326
contract: lab code: CHEM case no.: LB90326 sas no.: LB90326
matrix: Solid sample id: I5380-01 client id: SU-04-092217MS
Percent Solids for Sample: 87.7 Spiked ID: I5380-01MS Percent Solids for Spike Sample: 87.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.037	U	2.2	86.4		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90326 level: low sdg no.: LB90326
contract: lab code: CHEM case no.: LB90326 sas no.: LB90326
matrix: Solid sample id: I5380-01 client id: SU-04-092217MSD
Percent Solids for Sample: 87.7 Spiked ID: I5380-01MSD Percent Solids for Spike Sample: 87.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.037	U	2.2	86.4		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90326 **Level:** LOW **SDG No.:** LB90326
Contract: **Lab Code:** CHEM **Case No.:** LB90326 **SAS No.:** LB90326
Matrix: Solid **Sample ID:** I5362-01 **Client ID:** SP-2-A-COMPDUP
Percent Solids for Sample: 83.7 **Duplicate ID** I5362-01DUP **Percent Solids for Spike Sample:** 83.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.046	J	0.035	U	200.0	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90326 **Level:** LOW **SDG No.:** LB90326
Contract: **Lab Code:** CHEM **Case No.:** LB90326 **SAS No.:** LB90326
Matrix: Solid **Sample ID:** I5362-01MS **Client ID:** SP-2-A-COMPMSD
Percent Solids for Sample: 83.7 **Duplicate ID** I5362-01MSD **Percent Solids for Spike Sample:** 83.7

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

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: <u>LB90326</u>	Level: <u>LOW</u>	SDG No.: <u>LB90326</u>
Contract: <u></u>	Lab Code: <u>CHEM</u>	Case No.: <u>LB90326</u> SAS No.: <u>LB90326</u>
Matrix: <u>Solid</u>	Sample ID: <u>I5380-01</u>	Client ID: <u>SU-04-092217DUP</u>
Percent Solids for Sample: <u>87.7</u>	Duplicate ID <u>I5380-01DUP</u>	Percent Solids for Spike Sample: <u>87.7</u>

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.037	U	-0.032	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90326 Level: LOW SDG No.: LB90326
 Contract: _____ Lab Code: CHEM Case No.: LB90326 SAS No.: LB90326
 Matrix: Solid Sample ID: I5380-01MS Client ID: SU-04-092217MSD
 Percent Solids for Sample: 87.7 Duplicate ID I5380-01MSD Percent Solids for Spike Sample: 87.7

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



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90326

SDG No.: LB90326

Contract:

Lab Code: CHEM

Case No.: LB90326

SAS No.: LB90326

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB102572BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90326

SDG No.: LB90326

Contract:

Lab Code: CHEM

Case No.: LB90326

SAS No.: LB90326

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB102594BS Cyanide	mg/Kg	4.8	4.6		95.8	85 - 115	