

Daily Analysis Runlog For Sequence/QC Batch ID # LB93717

Review By

Review On

SubDirectory

LB93717

Test :

Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP62497,WP62498,WP62499,WP62500,WP62501,WP62502,WP62503
ICV Standard	W1542
CCV Standard	WP62504
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP58910
Chk Standard	WP62506,WP59958,WP60878

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/06/18 10:37		OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/06/18 10:37		OK
3	10PPBCN	10PPBCN	CAL3	03/06/18 10:37		OK
4	50PPBCN	50PPBCN	CAL4	03/06/18 10:37		OK
5	100PPBCN	100PPBCN	CAL5	03/06/18 10:37		OK
6	250PPBCN	250PPBCN	CAL6	03/06/18 10:37		OK
7	500PPBCN	500PPBCN	CAL7	03/06/18 10:37		OK
8	ICV1	ICV1	ICV	03/06/18 11:44		OK
9	ICB1	ICB1	ICB	03/06/18 11:44		OK
10	CCV1	CCV1	CCV	03/06/18 11:44		OK
11	CCB1	CCB1	CCB	03/06/18 11:44		OK
12	PB107080BL	PB107080BL	MB	03/06/18 11:44		OK
13	PB107080BS	PB107080BS	LCS	03/06/18 11:44		OK
14	J1716-02	SB-01-08-12	SAM	03/06/18 11:44		OK
15	J1716-02DUP	SB-01-08-12DUP	DUP	03/06/18 11:44		OK
16	J1716-04	SB-03-12-16	SAM	03/06/18 11:52		OK
17	J1716-07	SB-08-10-17	SAM	03/06/18 11:52		OK
18	CCV2	CCV2	CCV	03/06/18 11:52		OK
19	CCB2	CCB2	CCB	03/06/18 11:52		OK
20	J1792-03	TP-7	SAM	03/06/18 11:52		OK
21	J1792-05	TP-8	SAM	03/06/18 11:52		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB93717

Review By		Review On				
SubDirectory		LB93717		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP62497,WP62498,WP62499,WP62500,WP62501,WP62502,WP62503				
ICV Standard		W1542				
CCV Standard		WP62504				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62506,WP59958,WP60878				
22	J1792-07	TP-12	SAM	03/06/18 11:52		OK
23	J1792-09	TP-13	SAM	03/06/18 11:52		OK
24	PB107089BL	PB107089BL	MB	03/06/18 11:52		OK
25	PB107089BS	PB107089BS	LCS	03/06/18 11:52		OK
26	J1736-06	OILY-WATER	SAM	03/06/18 11:59		OK
27	J1736-06DUP	OILY-WATERDUP	DUP	03/06/18 11:59		OK
28	J1736-06MS	OILY-WATERMS	MS	03/06/18 11:59		OK
29	J1736-06MSD	OILY-WATERMSD	MSD	03/06/18 11:59		OK
30	CCV3	CCV3	CCV	03/06/18 11:59		OK
31	CCB3	CCB3	CCB	03/06/18 11:59		OK
32	J1779-08	DRUM-1-4	SAM	03/06/18 11:59		OK
33	J1792-11	TP-7	SAM	03/06/18 11:59		OK
34	J1792-13	TP-8	SAM	03/06/18 11:59		OK
35	J1792-15	TP-13	SAM	03/06/18 11:59		OK
36	PB107113BL	PB107113BL	MB	03/06/18 11:59		OK
37	PB107113BS	PB107113BS	LCS	03/06/18 12:07		OK
38	J1810-05	MHA-WCGW	SAM	03/06/18 12:07		OK
39	J1810-05DUP	MHA-WCGWDUP	DUP	03/06/18 12:07		OK
40	CCV4	CCV4	CCV	03/06/18 12:07		OK
41	CCB4	CCB4	CCB	03/06/18 12:07		OK
42	PB107112BL	PB107112BL	MB	03/06/18 12:07		OK
43	PB107112BS	PB107112BS	LCS	03/06/18 12:07		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB93717

Review By		Review On				
SubDirectory		LB93717		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP62497,WP62498,WP62499,WP62500,WP62501,WP62502,WP62503				
ICV Standard		W1542				
CCV Standard		WP62504				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62506,WP59958,WP60878				
44	J1731-04	BALER-SOIL	SAM	03/06/18 12:07		OK
45	J1731-04DUP	BALER-SOILDUP	DUP	03/06/18 12:07		OK
46	J1731-04MS	BALER-SOILMS	MS	03/06/18 12:14		OK
47	J1731-04MSD	BALER-SOILMSD	MSD	03/06/18 12:14		OK
48	J1808-02	SB-04-9.5-11	SAM	03/06/18 12:14		OK
49	J1808-05	SB-06-05-10	SAM	03/06/18 12:14		OK
50	J1809-01	RO-1-4	SAM	03/06/18 12:15		OK
51	J1809-05	RO-5-7	SAM	03/06/18 12:15		OK
52	CCV5	CCV5	CCV	03/06/18 12:15		OK
53	CCB5	CCB5	CCB	03/06/18 12:15		OK
54	J1810-01	MHA-WCS	SAM	03/06/18 12:15		OK
55	J1810-03	MHA-WCD	SAM	03/06/18 12:15		OK
56	J1792-01	TP-6	SAM	03/06/18 12:15		OK
57	LOWPB107080	LOWPB107080	SAM	03/06/18 12:52		OK
58	HIGHPB107080	HIGHPB107080	SAM	03/06/18 12:52		OK
59	J1716-02MS	SB-01-08-12MS	MS	03/06/18 12:52		OK
60	J1716-02MSD	SB-01-08-12MSD	MSD	03/06/18 12:52		OK
61	J1810-05MS	MHA-WCGWMS	MS	03/06/18 12:52		OK
62	J1810-05MSD	MHA-WCGWMSD	MSD	03/06/18 12:52		OK
63	CCV6	CCV6	CCV	03/06/18 12:52		OK
64	CCB6	CCB6	CCB	03/06/18 12:52		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB93717	Date Received:	
Client Sample ID:	HIGHPB107080	SDG No.:	LB93717
Lab Sample ID:	HIGHPB107080	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	0.5	OR	1	0.003		0.005	mg/L		03/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93717	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	SB-01-08-12	SDG No.:	LB93717
Lab Sample ID:	J1716-02	Matrix:	Solid
Level (low/med):	low	% Solid:	66.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	17.5		1	0.049		0.37	mg/Kg	03/05/2018	03/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93717	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	SB-03-12-16	SDG No.:	LB93717
Lab Sample ID:	J1716-04	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	0.085	J	1	0.039		0.29	mg/Kg	03/05/2018	03/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93717	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	SB-08-10-17	SDG No.:	LB93717
Lab Sample ID:	J1716-07	Matrix:	Solid
Level (low/med):	low	% Solid:	82.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.07	J	1	0.04		0.3	mg/Kg	03/05/2018	03/06/2018	9012B

Report of Analysis

Client:		Date Collected:	3/5/2018 12:00:00 AM
Project:	LB93717	Date Received:	3/5/2018 12:00:00 AM
Client Sample ID:	BALER-SOIL	SDG No.:	LB93717
Lab Sample ID:	J1731-04	Matrix:	Solid
Level (low/med):	low	% Solid:	93.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.035		0.26	mg/Kg	03/06/2018	03/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/28/2018 12:00:00 AM
Project:	LB93717	Date Received:	2/28/2018 12:00:00 AM
Client Sample ID:	OILY-WATER	SDG No.:	LB93717
Lab Sample ID:	J1736-06	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	0.0013	U	1	0.003		0.005	mg/L	03/05/2018	03/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93717	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	DRUM-1-4	SDG No.:	LB93717
Lab Sample ID:	J1779-08	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	0.0013	U	1	0.003		0.005	mg/L	03/05/2018	03/06/2018	9012B

Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93717	Date Received:	3/2/2018 12:00:00 AM
Client Sample ID:	TP-6	SDG No.:	LB93717
Lab Sample ID:	J1792-01	Matrix:	Solid
Level (low/med):	low	% Solid:	83.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.37		1	0.038		0.28	mg/Kg	03/05/2018	03/06/2018	9012B

Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93717	Date Received:	3/2/2018 12:00:00 AM
Client Sample ID:	TP-7	SDG No.:	LB93717
Lab Sample ID:	J1792-03	Matrix:	Solid
Level (low/med):	low	% Solid:	90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.08	J	1	0.035		0.27	mg/Kg	03/05/2018	03/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93717	Date Received:	3/2/2018 12:00:00 AM
Client Sample ID:	TP-8	SDG No.:	LB93717
Lab Sample ID:	J1792-05	Matrix:	Solid
Level (low/med):	low	% Solid:	85.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.19	J	1	0.037		0.28	mg/Kg	03/05/2018	03/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93717	Date Received:	3/2/2018 12:00:00 AM
Client Sample ID:	TP-12	SDG No.:	LB93717
Lab Sample ID:	J1792-07	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	0.075	J	1	0.036		0.27	mg/Kg	03/05/2018	03/06/2018	9012B

Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93717	Date Received:	3/2/2018 12:00:00 AM
Client Sample ID:	TP-13	SDG No.:	LB93717
Lab Sample ID:	J1792-09	Matrix:	Solid
Level (low/med):	low	% Solid:	85.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.054	J	1	0.038		0.29	mg/Kg	03/05/2018	03/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93717	Date Received:	3/2/2018 12:00:00 AM
Client Sample ID:	TP-7	SDG No.:	LB93717
Lab Sample ID:	J1792-11	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	0.0032	J	1	0.003		0.005	mg/L	03/05/2018	03/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93717	Date Received:	3/2/2018 12:00:00 AM
Client Sample ID:	TP-8	SDG No.:	LB93717
Lab Sample ID:	J1792-13	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	0.0012	U	1	0.003		0.005	mg/L	03/05/2018	03/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93717	Date Received:	3/2/2018 12:00:00 AM
Client Sample ID:	TP-13	SDG No.:	LB93717
Lab Sample ID:	J1792-15	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	0.0012	U	1	0.003		0.005	mg/L	03/05/2018	03/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/5/2018 12:00:00 AM
Project:	LB93717	Date Received:	3/5/2018 12:00:00 AM
Client Sample ID:	SB-04-9.5-11	SDG No.:	LB93717
Lab Sample ID:	J1808-02	Matrix:	Solid
Level (low/med):	low	% Solid:	85.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.079	J	1	0.039		0.29	mg/Kg	03/06/2018	03/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/5/2018 12:00:00 AM
Project:	LB93717	Date Received:	3/5/2018 12:00:00 AM
Client Sample ID:	SB-06-05-10	SDG No.:	LB93717
Lab Sample ID:	J1808-05	Matrix:	Solid
Level (low/med):	low	% Solid:	92.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.061	J	1	0.035		0.27	mg/Kg	03/06/2018	03/06/2018	9012B

Report of Analysis

Client:		Date Collected:	3/5/2018 12:00:00 AM
Project:	LB93717	Date Received:	3/5/2018 12:00:00 AM
Client Sample ID:	RO-1-4	SDG No.:	LB93717
Lab Sample ID:	J1809-01	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	0.035	U	1	0.037		0.28	mg/Kg	03/06/2018	03/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/5/2018 12:00:00 AM
Project:	LB93717	Date Received:	3/5/2018 12:00:00 AM
Client Sample ID:	RO-5-7	SDG No.:	LB93717
Lab Sample ID:	J1809-05	Matrix:	Solid
Level (low/med):	low	% Solid:	90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	J	1	0.035		0.27	mg/Kg	03/06/2018	03/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/5/2018 12:00:00 AM
Project:	LB93717	Date Received:	3/5/2018 12:00:00 AM
Client Sample ID:	MHA-WCS	SDG No.:	LB93717
Lab Sample ID:	J1810-01	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	0.14	J	1	0.041		0.31	mg/Kg	03/06/2018	03/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/5/2018 12:00:00 AM
Project:	LB93717	Date Received:	3/5/2018 12:00:00 AM
Client Sample ID:	MHA-WCD	SDG No.:	LB93717
Lab Sample ID:	J1810-03	Matrix:	Solid
Level (low/med):	low	% Solid:	62.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.24	J	1	0.052		0.39	mg/Kg	03/06/2018	03/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/5/2018 12:00:00 AM
Project:	LB93717	Date Received:	3/5/2018 12:00:00 AM
Client Sample ID:	MHA-WCGW	SDG No.:	LB93717
Lab Sample ID:	J1810-05	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	0.021		1	0.003		0.005	mg/L	03/06/2018	03/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93717	Date Received:	
Client Sample ID:	LOWPB107080	SDG No.:	LB93717
Lab Sample ID:	LOWPB107080	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		03/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93717	Date Received:	
Client Sample ID:	LOWPB107080	SDG No.:	LB93717
Lab Sample ID:	LOWPB107080	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: LB93717

SDG No.: LB93717

Contract: _____

Lab Code: CHEM

Case No.: LB93717

SAS No.: LB93717

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		03/06/2018	11:44	LB93717



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93717

SDG No.: LB93717

Contract: _____ Lab Code: CHEM

Case No.: LB93717

SAS No.: LB93717

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		03/06/2018	11:44	LB93717
CCV2	Cyanide	0.24	0.25	96		90 - 110		03/06/2018	11:52	LB93717
CCV3	Cyanide	0.24	0.25	96		90 - 110		03/06/2018	11:59	LB93717
CCV4	Cyanide	0.24	0.25	96		90 - 110		03/06/2018	12:07	LB93717
CCV5	Cyanide	0.24	0.25	96		90 - 110		03/06/2018	12:15	LB93717
CCV6	Cyanide	0.25	0.25	100		90 - 110		03/06/2018	12:52	LB93717



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93717

SDG No.: LB93717

Contract:

Lab Code: CHEM

Case No.: LB93717

SAS No.: LB93717

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00075	+/-0.005	U		0.005		03/06/2018	11:44	LB93717

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00077	+/-0.005	U		0.005		03/06/2018	11:44	LB93717
CCB2	Cyanide	0.00068	+/-0.005	U		0.005		03/06/2018	11:52	LB93717
CCB3	Cyanide	0.0005	+/-0.005	U		0.005		03/06/2018	11:59	LB93717
CCB4	Cyanide	0.00079	+/-0.005	U		0.005		03/06/2018	12:07	LB93717
CCB5	Cyanide	0.00083	+/-0.005	U		0.005		03/06/2018	12:15	LB93717
CCB6	Cyanide	0.0011	+/-0.005	U		0.005		03/06/2018	12:52	LB93717



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93717

SDG No.: LB93717

Contract: Lab Code: CHEM

Case No.: LB93717

SAS No.: LB93717

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: LB93717

SDG No.: LB93717

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
PB107080BL	Cyanide	SOLID		Batch Number:		PB107080		Prep Date:	03/05/2018	
		0.032	<0.24	J		0.24		03/06/2018	11:44	LB93717
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB107089BL	Cyanide	WATER		Batch Number:		PB107089		Prep Date:	03/05/2018	
		0.00048	<0.005	U		0.005		03/06/2018	11:52	LB93717
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB107112BL	Cyanide	SOLID		Batch Number:		PB107112		Prep Date:	03/06/2018	
		0.023	<0.24	U		0.24		03/06/2018	12:07	LB93717
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB107113BL	Cyanide	WATER		Batch Number:		PB107113		Prep Date:	03/06/2018	
		0.00021	<0.005	U		0.005		03/06/2018	11:59	LB93717



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93717 level: low sdg no.: LB93717
contract: lab code: CHEM case no.: LB93717 sas no.: LB93717
matrix: Solid sample id: J1716-02 client id: SB-01-08-12MS
Percent Solids for Sample: 66.5 Spiked ID: J1716-02MS Percent Solids for Spike Sample: 66.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	17.4		17.5		2.9	-3	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93717 level: low sdg no.: LB93717
contract: lab code: CHEM case no.: LB93717 sas no.: LB93717
matrix: Solid sample id: J1716-02 client id: SB-01-08-12MSD
Percent Solids for Sample: 66.5 Spiked ID: J1716-02MSD Percent Solids for Spike Sample: 66.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	17.5		17.5		3	0	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93717 level: low sdg no.: LB93717
contract: lab code: CHEM case no.: LB93717 sas no.: LB93717
matrix: Solid sample id: J1731-04 client id: BALER-SOILMS
Percent Solids for Sample: 93.7 Spiked ID: J1731-04MS Percent Solids for Spike Sample: 93.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.12	J	2.1	75		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93717 level: low sdg no.: LB93717
contract: lab code: CHEM case no.: LB93717 sas no.: LB93717
matrix: Solid sample id: J1731-04 client id: BALER-SOILMSD
Percent Solids for Sample: 93.7 Spiked ID: J1731-04MSD Percent Solids for Spike Sample: 93.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.12	J	2.1	80		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93717 level: low sdg no.: LB93717
contract: lab code: CHEM case no.: LB93717 sas no.: LB93717
matrix: WATER sample id: J1736-06 client id: OILY-WATERMS
Percent Solids for Sample: 0 Spiked ID: J1736-06MS 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	0.033		0.003	U	0.04	82.5		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93717 level: low sdg no.: LB93717
contract: lab code: CHEM case no.: LB93717 sas no.: LB93717
matrix: WATER sample id: J1736-06 client id: OILY-WATERMSD
Percent Solids for Sample: 0 Spiked ID: J1736-06MSD 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	0.034		0.003	U	0.04	85		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93717 level: low sdg no.: LB93717
contract: lab code: CHEM case no.: LB93717 sas no.: LB93717
matrix: WATER sample id: J1810-05 client id: MHA-WCGWMS
Percent Solids for Sample: 0 Spiked ID: J1810-05MS 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	0.13		0.021		0.04	273	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93717 level: low sdg no.: LB93717
contract: lab code: CHEM case no.: LB93717 sas no.: LB93717
matrix: WATER sample id: J1810-05 client id: MHA-WCGWMSD
Percent Solids for Sample: 0 Spiked ID: J1810-05MSD 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	0.13		0.021		0.04	273	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93717 **Level:** LOW **SDG No.:** LB93717
Contract: **Lab Code:** CHEM **Case No.:** LB93717 **SAS No.:** LB93717
Matrix: Solid **Sample ID:** J1716-02 **Client ID:** SB-01-08-12DUP
Percent Solids for Sample: 66.5 **Duplicate ID** J1716-02DUP **Percent Solids for Spike Sample:** 66.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	17.5		17		3		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93717 **Level:** LOW **SDG No.:** LB93717
Contract: **Lab Code:** CHEM **Case No.:** LB93717 **SAS No.:** LB93717
Matrix: Solid **Sample ID:** J1716-02MS **Client ID:** SB-01-08-12MSD
Percent Solids for Sample: 66.5 **Duplicate ID** J1716-02MSD **Percent Solids for Spike Sample:** 66.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	17.4		17.5		1		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93717 **Level:** LOW **SDG No.:** LB93717
Contract: **Lab Code:** CHEM **Case No.:** LB93717 **SAS No.:** LB93717
Matrix: Solid **Sample ID:** J1731-04 **Client ID:** BALER-SOILDUP
Percent Solids for Sample: 93.7 **Duplicate ID** J1731-04DUP **Percent Solids for Spike Sample:** 93.7

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

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93717 **Level:** LOW **SDG No.:** LB93717
Contract: **Lab Code:** CHEM **Case No.:** LB93717 **SAS No.:** LB93717
Matrix: Solid **Sample ID:** J1731-04MS **Client ID:** BALER-SOILMSD
Percent Solids for Sample: 93.7 **Duplicate ID** J1731-04MSD **Percent Solids for Spike Sample:** 93.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.7		1.8		6		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93717 **Level:** LOW **SDG No.:** LB93717
Contract: **Lab Code:** CHEM **Case No.:** LB93717 **SAS No.:** LB93717
Matrix: WATER **Sample ID:** J1736-06 **Client ID:** OILY-WATERDUP
Percent Solids for Sample: 0 **Duplicate ID** J1736-06DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.003	U	0.0013	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93717 **Level:** LOW **SDG No.:** LB93717
Contract: **Lab Code:** CHEM **Case No.:** LB93717 **SAS No.:** LB93717
Matrix: WATER **Sample ID:** J1736-06MS **Client ID:** OILY-WATERMSD
Percent Solids for Sample: 0 **Duplicate ID** J1736-06MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.033		0.034		3		



GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93717 **Level:** LOW **SDG No.:** LB93717
Contract: **Lab Code:** CHEM **Case No.:** LB93717 **SAS No.:** LB93717
Matrix: WATER **Sample ID:** J1810-05 **Client ID:** MHA-WCGWDUP
Percent Solids for Sample: 0 **Duplicate ID** J1810-05DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.021		0.021		0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93717 **Level:** LOW **SDG No.:** LB93717
Contract: **Lab Code:** CHEM **Case No.:** LB93717 **SAS No.:** LB93717
Matrix: WATER **Sample ID:** J1810-05MS **Client ID:** MHA-WCGWMSD
Percent Solids for Sample: 0 **Duplicate ID** J1810-05MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.13		0.13		0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93717

SDG No.: LB93717

Contract:

Lab Code: CHEM

Case No.: LB93717

SAS No.: LB93717

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB107080BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93717

SDG No.: LB93717

Contract:

Lab Code: CHEM

Case No.: LB93717

SAS No.: LB93717

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB107089BS Cyanide	mg/L	0.1	0.098		98	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93717

SDG No.: LB93717

Contract:

Lab Code: CHEM

Case No.: LB93717

SAS No.: LB93717

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB107112BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB107113BS							
Cyanide	mg/L	0.1	0.094		94	85 - 115	