

Daily Analysis Runlog For Sequence/QC Batch ID # LB95530

Review By		Review On				
SubDirectory		LB95530		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64699,WP64700,WP64701,WP64702,WP64703,WP64704,WP64705				
ICV Standard		W1542				
CCV Standard		WP64706				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64708,WP64695,WP64696				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/22/18 08:18		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/22/18 08:19		OK
3	10PPBCN	10PPBCN	CAL3	05/22/18 08:19		OK
4	50PPBCN	50PPBCN	CAL4	05/22/18 08:19		OK
5	100PPBCN	100PPBCN	CAL5	05/22/18 08:19		OK
6	250PPBCN	250PPBCN	CAL6	05/22/18 08:19		OK
7	500PPBCN	500PPBCN	CAL7	05/22/18 08:19		OK
8	ICV1	ICV1	ICV	05/22/18 08:54		OK
9	ICB1	ICB1	ICB	05/22/18 08:54		OK
10	CCV1	CCV1	CCV	05/22/18 08:54		OK
11	CCB1	CCB1	CCB	05/22/18 08:54		OK
12	PB109496BL	PB109496BL	MB	05/22/18 08:54		OK
13	PB109496BS	PB109496BS	LCS	05/22/18 08:54		OK
14	HIGHPB109496	HIGHPB109496	SAM	05/22/18 08:54		OK
15	J2676-21	CL-01-051818-A	SAM	05/22/18 08:54		OK
16	J2676-21DUP	CL-01-051818-ADUP	DUP	05/22/18 08:54		OK
17	J2676-21MS	CL-01-051818-AMS	MS	05/22/18 08:54		OK
18	J2676-21MSD	CL-01-051818-AMSD	MSD	05/22/18 09:02		OK
19	J2676-23	CL-01-051818-B	SAM	05/22/18 09:02		OK
20	CCV2	CCV2	CCV	05/22/18 09:02		OK
21	CCB2	CCB2	CCB	05/22/18 09:02		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB95530

Review By		Review On				
SubDirectory		LB95530		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64699,WP64700,WP64701,WP64702,WP64703,WP64704,WP64705				
ICV Standard		W1542				
CCV Standard		WP64706				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64708,WP64695,WP64696				
22	J2676-27	CL-01-051818-D	SAM	05/22/18 09:02		OK
23	J3011-01	MS-BLDG-FOUNDAT	SAM	05/22/18 09:02		OK
24	J3023-01	FOX-1-E(0-1)	SAM	05/22/18 09:02		OK
25	J3023-03	FOX-1-E(9-10)	SAM	05/22/18 09:09		OK
26	PB109497BL	PB109497BL	MB	05/22/18 09:09		OK
27	PB109497BS	PB109497BS	LCS	05/22/18 09:09		OK
28	J3010-01	132-2-PHASE-1	SAM	05/22/18 09:09		OK
29	CCV3	CCV3	CCV	05/22/18 09:09		OK
30	CCB3	CCB3	CCB	05/22/18 09:09		OK
31	J3010-01DUP	132-2-PHASE-1DUP	DUP	05/22/18 09:09		OK
32	J3010-01MS	132-2-PHASE-1MS	MS	05/22/18 09:09		OK
33	J3010-01MSD	132-2-PHASE-1MSD	MSD	05/22/18 09:09		OK
34	J3010-04	132-2-PHASE-2	SAM	05/22/18 09:09		OK
35	J3010-07	132-2-PHASE-3	SAM	05/22/18 09:09		OK
36	J3010-10	SOIL-PHASE-1	SAM	05/22/18 09:17		OK
37	J3010-14	SOIL-PHASE-2	SAM	05/22/18 09:17		OK
38	PB109504BL	PB109504BL	MB	05/22/18 09:17		OK
39	PB109504BS	PB109504BS	LCS	05/22/18 09:17		OK
40	CCV4	CCV4	CCV	05/22/18 09:17		OK
41	CCB4	CCB4	CCB	05/22/18 09:17		OK
42	J3010-23	OILY-WATER	SAM	05/22/18 09:17		OK
43	J3010-23DUP	OILY-WATERDUP	DUP	05/22/18 09:17		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB95530

Review By		Review On				
SubDirectory		LB95530		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64699,WP64700,WP64701,WP64702,WP64703,WP64704,WP64705				
ICV Standard		W1542				
CCV Standard		WP64706				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64708,WP64695,WP64696				
44	J3010-23MS	OILY-WATERMS	MS	05/22/18 09:17		OK
45	J3010-23MSD	OILY-WATERMSD	MSD	05/22/18 09:17		OK
46	J3045-01	MH-6	SAM	05/22/18 09:22		OK
47	CCV5	CCV5	CCV	05/22/18 09:22		OK
48	CCB5	CCB5	CCB	05/22/18 09:22		OK
49	LOWPB109496	LOWPB109496	SAM	05/22/18 09:50		OK
50	J2676-25	CL-01-051818-C	SAM	05/22/18 09:50		OK
51	J2676-29	CL-01-051818-E	SAM	05/22/18 09:50		OK
52	J3013-01	FP-SOIL	SAM	05/22/18 09:50		OK
53	J3023-02	FOX-1-E(4-5)	SAM	05/22/18 09:50		OK
54	J3010-18	SOIL-PHASE-3	SAM	05/22/18 09:50		OK
55	J3013-03	FP-WATER	SAM	05/22/18 09:50		OK
56	CCV6	CCV6	CCV	05/22/18 10:10		OK
57	CCB6	CCB6	CCB	05/22/18 10:10		OK



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	
Project:	LB95530	Date Received:	
Client Sample ID:	HIGHPB109496	SDG No.:	LB95530
Lab Sample ID:	HIGHPB109496	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		05/22/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/18/2018 12:00:00 AM
Project:	LB95530	Date Received:	5/18/2018 12:00:00 AM
Client Sample ID:	CL-01-051818-A	SDG No.:	LB95530
Lab Sample ID:	J2676-21	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	0.11	J	1	0.035		0.27	mg/Kg	05/21/2018	05/22/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/18/2018 12:00:00 AM
Project:	LB95530	Date Received:	5/18/2018 12:00:00 AM
Client Sample ID:	CL-01-051818-B	SDG No.:	LB95530
Lab Sample ID:	J2676-23	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	0.11	J	1	0.035		0.27	mg/Kg	05/21/2018	05/22/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/18/2018 12:00:00 AM
Project:	LB95530	Date Received:	5/18/2018 12:00:00 AM
Client Sample ID:	CL-01-051818-C	SDG No.:	LB95530
Lab Sample ID:	J2676-25	Matrix:	Solid
Level (low/med):	low	% Solid:	91.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.066	J	1	0.034		0.26	mg/Kg	05/21/2018	05/22/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/18/2018 12:00:00 AM
Project:	LB95530	Date Received:	5/18/2018 12:00:00 AM
Client Sample ID:	CL-01-051818-D	SDG No.:	LB95530
Lab Sample ID:	J2676-27	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	0.042	J	1	0.034		0.25	mg/Kg	05/21/2018	05/22/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/18/2018 12:00:00 AM
Project:	LB95530	Date Received:	5/18/2018 12:00:00 AM
Client Sample ID:	CL-01-051818-E	SDG No.:	LB95530
Lab Sample ID:	J2676-29	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	0.047	J	1	0.035		0.27	mg/Kg	05/21/2018	05/22/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/18/2018 12:00:00 AM
Project:	LB95530	Date Received:	5/18/2018 12:00:00 AM
Client Sample ID:	132-2-PHASE-1	SDG No.:	LB95530
Lab Sample ID:	J3010-01	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	0.052	J	1	0.032		0.24	mg/Kg	05/21/2018	05/22/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/18/2018 12:00:00 AM
Project:	LB95530	Date Received:	5/18/2018 12:00:00 AM
Client Sample ID:	132-2-PHASE-2	SDG No.:	LB95530
Lab Sample ID:	J3010-04	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	0.074	J	1	0.032		0.24	mg/Kg	05/21/2018	05/22/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/18/2018 12:00:00 AM
Project:	LB95530	Date Received:	5/18/2018 12:00:00 AM
Client Sample ID:	132-2-PHASE-3	SDG No.:	LB95530
Lab Sample ID:	J3010-07	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	0.05	J	1	0.031		0.24	mg/Kg	05/21/2018	05/22/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/18/2018 12:00:00 AM
Project:	LB95530	Date Received:	5/18/2018 12:00:00 AM
Client Sample ID:	SOIL-PHASE-1	SDG No.:	LB95530
Lab Sample ID:	J3010-10	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	0.075	J	1	0.035		0.27	mg/Kg	05/21/2018	05/22/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/18/2018 12:00:00 AM
Project:	LB95530	Date Received:	5/18/2018 12:00:00 AM
Client Sample ID:	SOIL-PHASE-2	SDG No.:	LB95530
Lab Sample ID:	J3010-14	Matrix:	Solid
Level (low/med):	low	% Solid:	90.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.074	J	1	0.035		0.27	mg/Kg	05/21/2018	05/22/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/18/2018 12:00:00 AM
Project:	LB95530	Date Received:	5/18/2018 12:00:00 AM
Client Sample ID:	SOIL-PHASE-3	SDG No.:	LB95530
Lab Sample ID:	J3010-18	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	0.016	U	1	0.036		0.27	mg/Kg	05/21/2018	05/22/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/18/2018 12:00:00 AM
Project:	LB95530	Date Received:	5/18/2018 12:00:00 AM
Client Sample ID:	OILY-WATER	SDG No.:	LB95530
Lab Sample ID:	J3010-23	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	0.0015	U	1	0.003		0.005	mg/L	05/21/2018	05/22/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/18/2018 12:00:00 AM
Project:	LB95530	Date Received:	5/18/2018 12:00:00 AM
Client Sample ID:	MS-BLDG-FOUNDATION	SDG No.:	LB95530
Lab Sample ID:	J3011-01	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	0.088	J	1	0.032		0.24	mg/Kg	05/21/2018	05/22/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/18/2018 12:00:00 AM
Project:	LB95530	Date Received:	5/18/2018 12:00:00 AM
Client Sample ID:	FP-SOIL	SDG No.:	LB95530
Lab Sample ID:	J3013-01	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	0.2	J	1	0.035		0.26	mg/Kg	05/21/2018	05/22/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/18/2018 12:00:00 AM
Project:	LB95530	Date Received:	5/18/2018 12:00:00 AM
Client Sample ID:	FP-WATER	SDG No.:	LB95530
Lab Sample ID:	J3013-03	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	0.0029	U	1	0.003		0.005	mg/L	05/21/2018	05/22/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/17/2018 12:00:00 AM
Project:	LB95530	Date Received:	5/18/2018 12:00:00 AM
Client Sample ID:	FOX-1-E(0-1)	SDG No.:	LB95530
Lab Sample ID:	J3023-01	Matrix:	Solid
Level (low/med):	low	% Solid:	78.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.066	J	1	0.041		0.31	mg/Kg	05/21/2018	05/22/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/17/2018 12:00:00 AM
Project:	LB95530	Date Received:	5/18/2018 12:00:00 AM
Client Sample ID:	FOX-1-E(4-5)	SDG No.:	LB95530
Lab Sample ID:	J3023-02	Matrix:	Solid
Level (low/med):	low	% Solid:	76.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.022	U	1	0.041		0.31	mg/Kg	05/21/2018	05/22/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/17/2018 12:00:00 AM
Project:	LB95530	Date Received:	5/18/2018 12:00:00 AM
Client Sample ID:	FOX-1-E(9-10)	SDG No.:	LB95530
Lab Sample ID:	J3023-03	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	0.093	J	1	0.035		0.26	mg/Kg	05/21/2018	05/22/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/18/2018 12:00:00 AM
Project:	LB95530	Date Received:	5/21/2018 12:00:00 AM
Client Sample ID:	MH-6	SDG No.:	LB95530
Lab Sample ID:	J3045-01	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	0.0029	U	1	0.003		0.005	mg/L	05/21/2018	05/22/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	
Project:	LB95530	Date Received:	
Client Sample ID:	LOWPB109496	SDG No.:	LB95530
Lab Sample ID:	LOWPB109496	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		05/22/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	
Project:	LB95530	Date Received:	
Client Sample ID:	LOWPB109496	SDG No.:	LB95530
Lab Sample ID:	LOWPB109496	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
-----	-----------	-------	------	----	-----	-----	------------	-------	-----------	-----------	----------

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: LB95530

SDG No.: LB95530

Contract: _____ Lab Code: CHEM

Case No.: LB95530

SAS No.: LB95530

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	0.098	0.099	99		85 - 115		05/22/2018	08:54	LB95530



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95530

SDG No.: LB95530

Contract: _____ Lab Code: CHEM

Case No.: LB95530

SAS No.: LB95530

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		05/22/2018	08:54	LB95530
CCV2	Cyanide	0.24	0.25	96		90 - 110		05/22/2018	09:02	LB95530
CCV3	Cyanide	0.24	0.25	96		90 - 110		05/22/2018	09:09	LB95530
CCV4	Cyanide	0.24	0.25	96		90 - 110		05/22/2018	09:17	LB95530
CCV5	Cyanide	0.24	0.25	96		90 - 110		05/22/2018	09:22	LB95530
CCV6	Cyanide	0.26	0.25	104		90 - 110		05/22/2018	10:10	LB95530



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95530 **SDG No.:** LB95530
Contract: **Lab Code:** CHEM **Case No.:** LB95530 **SAS No.:** LB95530

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.0013	+/-0.005	U		0.005		05/22/2018	08:54	LB95530

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.0015	+/-0.005	U		0.005		05/22/2018	08:54	LB95530
CCB2	Cyanide	0.00066	+/-0.005	U		0.005		05/22/2018	09:02	LB95530
CCB3	Cyanide	0.00078	+/-0.005	U		0.005		05/22/2018	09:09	LB95530
CCB4	Cyanide	0.0011	+/-0.005	U		0.005		05/22/2018	09:17	LB95530
CCB5	Cyanide	0.0007	+/-0.005	U		0.005		05/22/2018	09:22	LB95530
CCB6	Cyanide	0.00032	+/-0.005	U		0.005		05/22/2018	10:10	LB95530



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95530

SDG No.: LB95530

Contract: Lab Code: CHEM

Case No.: LB95530

SAS No.: LB95530

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
-----------	---------	----------------	---------------------	--------------	-----	------	---	------------------	------------------	---------------



GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB95530

SDG No.: LB95530

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
PB109496BL	Cyanide	SOLID		Batch Number:		PB109496		Prep Date:	05/21/2018	
		0.049	<0.24	J		0.24		05/22/2018	08:54	LB95530
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB109497BL	Cyanide	SOLID		Batch Number:		PB109497		Prep Date:	05/21/2018	
		0.02	<0.25	U		0.25		05/22/2018	09:09	LB95530
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB109504BL	Cyanide	WATER		Batch Number:		PB109504		Prep Date:	05/21/2018	
		0.0003	<0.005	U		0.005		05/22/2018	09:17	LB95530



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95530 level: low sdg no.: LB95530
contract: lab code: CHEM case no.: LB95530 sas no.: LB95530
matrix: Solid sample id: J2676-21 client id: CL-01-051818-AMS
Percent Solids for Sample: 89.5 Spiked ID: J2676-21MS Percent Solids for Spike Sample: 89.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.2		0.11	J	2.1	100		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95530 level: low sdg no.: LB95530
contract: lab code: CHEM case no.: LB95530 sas no.: LB95530
matrix: Solid sample id: J2676-21 client id: CL-01-051818-AMSD
Percent Solids for Sample: 89.5 Spiked ID: J2676-21MSD Percent Solids for Spike Sample: 89.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.3		0.11	J	2.2	100		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95530 level: low sdg no.: LB95530
contract: lab code: CHEM case no.: LB95530 sas no.: LB95530
matrix: Solid sample id: J3010-01 client id: 132-2-PHASE-1MS
Percent Solids for Sample: 100 Spiked ID: J3010-01MS Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2		0.052	J	1.9	103		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95530 level: low sdg no.: LB95530
contract: lab code: CHEM case no.: LB95530 sas no.: LB95530
matrix: Solid sample id: J3010-01 client id: 132-2-PHASE-1MSD
Percent Solids for Sample: 100 Spiked ID: J3010-01MSD Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.052	J	1.9	97		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95530 level: low sdg no.: LB95530
contract: lab code: CHEM case no.: LB95530 sas no.: LB95530
matrix: WATER sample id: J3010-23 client id: OILY-WATERMS
Percent Solids for Sample: 0 Spiked ID: J3010-23MS 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	0.037		0.003	U	0.04	92.5		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95530 level: low sdg no.: LB95530
contract: lab code: CHEM case no.: LB95530 sas no.: LB95530
matrix: WATER sample id: J3010-23 client id: OILY-WATERMSD
Percent Solids for Sample: 0 Spiked ID: J3010-23MSD 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	0.036		0.003	U	0.04	90		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95530 **Level:** LOW **SDG No.:** LB95530
Contract: **Lab Code:** CHEM **Case No.:** LB95530 **SAS No.:** LB95530
Matrix: Solid **Sample ID:** J2676-21 **Client ID:** CL-01-051818-ADUP
Percent Solids for Sample: 89.5 **Duplicate ID** J2676-21DUP **Percent Solids for Spike Sample:** 89.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.11	J	0.074	J	39	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95530 **Level:** LOW **SDG No.:** LB95530
Contract: **Lab Code:** CHEM **Case No.:** LB95530 **SAS No.:** LB95530
Matrix: Solid **Sample ID:** J2676-21MS **Client ID:** CL-01-051818-AMSD
Percent Solids for Sample: 89.5 **Duplicate ID** J2676-21MSD **Percent Solids for Spike Sample:** 89.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.2		2.3		4		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95530 **Level:** LOW **SDG No.:** LB95530
Contract: **Lab Code:** CHEM **Case No.:** LB95530 **SAS No.:** LB95530
Matrix: Solid **Sample ID:** J3010-01 **Client ID:** 132-2-PHASE-1DUP
Percent Solids for Sample: 100 **Duplicate ID** J3010-01DUP **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.052	J	0.067	J	25	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95530 **Level:** LOW **SDG No.:** LB95530
Contract: **Lab Code:** CHEM **Case No.:** LB95530 **SAS No.:** LB95530
Matrix: Solid **Sample ID:** J3010-01MS **Client ID:** 132-2-PHASE-1MSD
Percent Solids for Sample: 100 **Duplicate ID** J3010-01MSD **Percent Solids for Spike Sample:** 100

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



GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95530 **Level:** LOW **SDG No.:** LB95530
Contract: **Lab Code:** CHEM **Case No.:** LB95530 **SAS No.:** LB95530
Matrix: WATER **Sample ID:** J3010-23 **Client ID:** OILY-WATERDUP
Percent Solids for Sample: 0 **Duplicate ID** J3010-23DUP **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	0.0011	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95530 **Level:** LOW **SDG No.:** LB95530
Contract: **Lab Code:** CHEM **Case No.:** LB95530 **SAS No.:** LB95530
Matrix: WATER **Sample ID:** J3010-23MS **Client ID:** OILY-WATERMSD
Percent Solids for Sample: 0 **Duplicate ID** J3010-23MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.037		0.036		3		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95530 SDG No.: LB95530
Contract: Lab Code: CHEM Case No.: LB95530 SAS No.: LB95530

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB109496BS Cyanide	mg/Kg	5	4.9		98	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95530

SDG No.: LB95530

Contract:

Lab Code: CHEM

Case No.: LB95530

SAS No.: LB95530

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB109497BS Cyanide	mg/Kg	5	4.8		96	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95530

SDG No.: LB95530

Contract:

Lab Code: CHEM

Case No.: LB95530

SAS No.: LB95530

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB109504BS Cyanide	mg/L	0.1	0.097		97	85 - 115	