

Daily Analysis Runlog For Sequence/QC Batch ID # LB90450

Review By		Review On				
SubDirectory		LB90450		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		wp58393,wp58394,wp583295,wp58396,wp58397,wp58398,wp58391				
ICV Standard		WP5839.				
CCV Standard		WP58400				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		wp58401,wp55355,wp55836				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	09/29/17 11:18		OK
2	5.0PPBCN	5.0PPBCN	CAL2	09/29/17 11:18		OK
3	10PPBCN	10PPBCN	CAL3	09/29/17 11:18		OK
4	50PPBCN	50PPBCN	CAL4	09/29/17 11:18		OK
5	100PPBCN	100PPBCN	CAL5	09/29/17 11:18		OK
6	250PPBCN	250PPBCN	CAL6	09/29/17 11:18		OK
7	500PPBCN	500PPBCN	CAL7	09/29/17 11:18		OK
8	ICV1	ICV1	ICV	09/29/17 17:56		OK
9	ICB1	ICB1	ICB	09/29/17 17:56		OK
10	CCV1	CCV1	CCV	09/29/17 17:56		OK
11	CCB1	CCB1	CCB	09/29/17 17:56		OK
12	PB102740BL	PB102740BL	MB	09/29/17 17:56		OK
13	I5487-06	CL-02-092717-B	SAM	09/29/17 17:56		OK
14	I5487-06DUP	CL-02-092717-BDUP	DUP	09/29/17 18:03		OK
15	I5487-09	CL-02-092717-C	SAM	09/29/17 18:03		OK
16	I5487-12	CL-02-092717-D	SAM	09/29/17 18:03		OK
17	I5509-03	LEONIA-GENERATOR	SAM	09/29/17 18:03		OK
18	I5511-03	EO-01-092817	SAM	09/29/17 18:03		OK
19	I5514-03	SU-03-092817	SAM	09/29/17 18:03		OK
20	I5515-03	HD-02-092817	SAM	09/29/17 18:03		OK
21	I5531-21	G-62-0-2.5	SAM	09/29/17 18:03		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB90450

Review By		Review On				
SubDirectory		LB90450		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		wp58393,wp58394,wp583295,wp58396,wp58397,wp58398,wp58391				
ICV Standard		WP5839.				
CCV Standard		WP58400				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		wp58401,wp55355,wp55836				
22	CCV2	CCV2	CCV	09/29/17 18:03		OK
23	CCB2	CCB2	CCB	09/29/17 18:03		OK
24	I5531-22	G-62-2.5-5	SAM	09/29/17 18:03		OK
25	I5531-23	G-63-0-2.5	SAM	09/29/17 18:11		OK
26	I5531-24	G-63-2.5-5	SAM	09/29/17 18:11		OK
27	I5531-25	G-62A-0-2.5	SAM	09/29/17 18:11		OK
28	I5531-26	G-62A-2.5-5	SAM	09/29/17 18:11		OK
29	I5531-27	G-63A-0-3	SAM	09/29/17 18:11		OK
30	I5531-28	G-63A-3-6	SAM	09/29/17 18:11		OK
31	I5531-29	G-64-0-1.5	SAM	09/29/17 18:11		OK
32	I5531-30	G-64-1.5-3	SAM	09/29/17 18:11		OK
33	I5532-13	G-64A-0-1.5	SAM	09/29/17 18:11		OK
34	CCV3	CCV3	CCV	09/29/17 18:11		OK
35	CCB3	CCB3	CCB	09/29/17 18:11		OK
36	I5532-14	G-64A-1.5-3	SAM	09/29/17 18:17		OK
37	I5532-15	G-65-0-1	SAM	09/29/17 18:17		OK
38	I5532-16	G-65-1-2	SAM	09/29/17 18:17		OK
39	I5532-17	G-66-0-1	SAM	09/29/17 18:17		OK
40	I5532-18	G-66-1-2	SAM	09/29/17 18:17		OK
41	CCV4	CCV4	CCV	09/29/17 18:17		OK
42	CCB4	CCB4	CCB	09/29/17 18:17		OK



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	CL-02-092717-B	SDG No.:	LB90450
Lab Sample ID:	I5487-06	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.
	Reactive Cyanide	-0.00051	U	1	0.025		0.05	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	CL-02-092717-C	SDG No.:	LB90450
Lab Sample ID:	I5487-09	Matrix:	Solid
Level (low/med):	low	% Solid:	95.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00036	U	1	0.025		0.05	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	CL-02-092717-D	SDG No.:	LB90450
Lab Sample ID:	I5487-12	Matrix:	Solid
Level (low/med):	low	% Solid:	95.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.002	U	1	0.025		0.05	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	LEONIA-GENERATOR-COMP	SDG No.:	LB90450
Lab Sample ID:	I5509-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00062	U	1	0.025		0.05	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	EO-01-092817	SDG No.:	LB90450
Lab Sample ID:	I5511-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0011	U	1	0.025		0.05	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	SU-03-092817	SDG No.:	LB90450
Lab Sample ID:	I5514-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0018	U	1	0.025		0.05	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	HD-02-092817	SDG No.:	LB90450
Lab Sample ID:	I5515-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0029	U	1	0.025		0.05	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-62-0-2.5	SDG No.:	LB90450
Lab Sample ID:	I5531-21	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.001	U	1	0.025		0.05	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-62-2.5-5	SDG No.:	LB90450
Lab Sample ID:	I5531-22	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.018	U	1	0.025		0.05	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-63-0-2.5	SDG No.:	LB90450
Lab Sample ID:	I5531-23	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0019	U	1	0.025		0.05	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-63-2.5-5	SDG No.:	LB90450
Lab Sample ID:	I5531-24	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00061	U	1	0.025		0.05	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-62A-0-2.5	SDG No.:	LB90450
Lab Sample ID:	I5531-25	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00061	U	1	0.025		0.05	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-62A-2.5-5	SDG No.:	LB90450
Lab Sample ID:	I5531-26	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00082	U	1	0.025		0.05	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-63A-0-3	SDG No.:	LB90450
Lab Sample ID:	I5531-27	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0021	U	1	0.025		0.05	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-63A-3-6	SDG No.:	LB90450
Lab Sample ID:	I5531-28	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0023	U	1	0.025		0.05	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-64-0-1.5	SDG No.:	LB90450
Lab Sample ID:	I5531-29	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00025	U	1	0.025		0.049	mg/Kg	09/29/2017	09/29/2017	9012B

Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-64-1.5-3	SDG No.:	LB90450
Lab Sample ID:	I5531-30	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0012	U	1	0.025		0.05	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-64A-0-1.5	SDG No.:	LB90450
Lab Sample ID:	I5532-13	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0031	U	1	0.025		0.05	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-64A-1.5-3	SDG No.:	LB90450
Lab Sample ID:	I5532-14	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0024	U	1	0.025		0.05	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-65-0-1	SDG No.:	LB90450
Lab Sample ID:	I5532-15	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.002	U	1	0.025		0.05	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-65-1-2	SDG No.:	LB90450
Lab Sample ID:	I5532-16	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0012	U	1	0.025		0.05	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-66-0-1	SDG No.:	LB90450
Lab Sample ID:	I5532-17	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00043	U	1	0.025		0.049	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-66-1-2	SDG No.:	LB90450
Lab Sample ID:	I5532-18	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00033	U	1	0.025		0.049	mg/Kg	09/29/2017	09/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90450	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	G-66-1-2	SDG No.:	LB90450
Lab Sample ID:	I5532-18	Matrix:	Solid
Level (low/med):	low	% Solid:	100

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: LB90450

SDG No.: LB90450

Contract: _____ Lab Code: CHEM

Case No.: LB90450

SAS No.: LB90450

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	Reactive Cyanide	0.24	0.25	96	0	90 - 110		09/29/2017	17:56	LB90450
CCV2	Reactive Cyanide	0.25	0.25	100	0	90 - 110		09/29/2017	18:03	LB90450
CCV3	Reactive Cyanide	0.25	0.25	100	0	90 - 110		09/29/2017	18:11	LB90450
CCV4	Reactive Cyanide	0.25	0.25	100	0	90 - 110		09/29/2017	18:17	LB90450



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90450

SDG No.: LB90450

Contract:

Lab Code: CHEM

Case No.: LB90450

SAS No.: LB90450

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00083	+/-0.005	U		0.005		09/29/2017	17:56	LB90450



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90450

SDG No.: LB90450

Contract:

Lab Code: CHEM

Case No.: LB90450

SAS No.: LB90450

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00027	+/-0.005	U		0.005		09/29/2017	17:56	LB90450
CCB2	Reactive Cyanide	0.00063	+/-0.005	U		0.005		09/29/2017	18:03	LB90450
CCB3	Reactive Cyanide	0.00048	+/-0.005	U		0.005		09/29/2017	18:11	LB90450
CCB4	Reactive Cyanide	0.00061	+/-0.005	U		0.005		09/29/2017	18:17	LB90450



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90450

SDG No.: LB90450

Contract: Lab Code: CHEM

Case No.: LB90450

SAS No.: LB90450

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: LB90450

SDG No.: LB90450

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
PB102740BL	Reactive Cyanide	SOLID 0.0019	<0.05	Batch Number: U		PB102740 0.05		Prep Date: 09/29/2017	09/29/2017 17:56	LB90450

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB90450 **Level:** LOW **SDG No.:** LB90450
Contract: **Lab Code:** CHEM **Case No.:** LB90450 **SAS No.:** LB90450
Matrix: Solid **Sample ID:** I5487-06 **Client ID:** CL-02-092717-BDUP
Percent Solids for Sample: 92.9 **Duplicate ID** I5487-06DUP **Percent Solids for Spike Sample:** 92.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	0.0042	U			