

Daily Analysis Runlog For Sequence/QC Batch ID # LB88500

Review By		Review On				
SubDirectory		LB88500		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP56109,WP56110,WP56111,WP56112,WP56113,WP56114,WP56115				
ICV Standard		WP56117				
CCV Standard		WP56116				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP56107,WP55836,WP55355				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	07/03/17 10:05		OK
2	5.0PPBCN	5.0PPBCN	CAL2	07/03/17 10:05		OK
3	10PPBCN	10PPBCN	CAL3	07/03/17 10:05		OK
4	50PPBCN	50PPBCN	CAL4	07/03/17 10:05		OK
5	100PPBCN	100PPBCN	CAL5	07/03/17 10:05		OK
6	250PPBCN	250PPBCN	CAL6	07/03/17 10:05		OK
7	500PPBCN	500PPBCN	CAL7	07/03/17 10:05		OK
8	ICV1	ICV1	ICV	07/03/17 10:48		OK
9	ICB1	ICB1	ICB	07/03/17 10:48		OK
10	CCV1	CCV1	CCV	07/03/17 10:48		OK
11	CCB1	CCB1	CCB	07/03/17 10:48		OK
12	PB100353BL	PB100353BL	MB	07/03/17 10:48		OK
13	I3979-05	TP3-MH2095-COMP	SAM	07/03/17 10:48		OK
14	I3979-05DUP	TP3-MH2095-COMP	DUP	07/03/17 10:48		OK
15	I3979-10	TP4-MH2096-COMP	SAM	07/03/17 10:48		OK
16	I3980-03	SP-A-COMP	SAM	07/03/17 10:48		OK
17	I3980-06	SP-B-COMP	SAM	07/03/17 10:48		OK
18	I3980-09	SP-C-COMP	SAM	07/03/17 10:48		OK
19	I3980-12	SP-D-COMP	SAM	07/03/17 10:55		OK
20	I3982-03	339-COMP	SAM	07/03/17 10:55		OK
21	I3982-08	348-343-COMP	SAM	07/03/17 10:55		OK

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STD. NAME		STD REF.#				
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ICV Standard		WP56117				
CCV Standard		WP56116				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP56107,WP55836,WP55355				
22	CCV2	CCV2	CCV	07/03/17 10:55		OK
23	CCB2	CCB2	CCB	07/03/17 10:55		OK
24	I3982-12	277-COMP	SAM	07/03/17 10:55		OK
25	I3982-17	163-72-11929-COMP	SAM	07/03/17 10:55		OK
26	I3983-03	OILY-DRUM-COMP	SAM	07/03/17 10:55		OK
27	I3991-03	HR-06-062917-A	SAM	07/03/17 10:55		OK
28	I3991-06	HR-06-062917-B	SAM	07/03/17 10:55		OK
29	I3991-09	HR-06-062917-C	SAM	07/03/17 10:55		OK
30	I3996-02	I-5-(A-H)-COMP	SAM	07/03/17 11:00		OK
31	I4007-05	TP2-MH2094-COMP	SAM	07/03/17 11:00		OK
32	I4007-10	TP5-MH2097-COMP	SAM	07/03/17 11:00		OK
33	CCV3	CCV3	CCV	07/03/17 11:00		OK
34	CCB3	CCB3	CCB	07/03/17 11:00		OK



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Report of Analysis

Client:		Date Collected:	6/28/2017 12:00:00 AM
Project:	LB88500	Date Received:	6/28/2017 12:00:00 AM
Client Sample ID:	TP3-MH2095-COMP	SDG No.:	LB88500
Lab Sample ID:	I3979-05	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.
	Reactive Cyanide	0.02	U	1	0.025		0.05	mg/Kg	06/30/2017	07/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/28/2017 12:00:00 AM
Project:	LB88500	Date Received:	6/28/2017 12:00:00 AM
Client Sample ID:	TP4-MH2096-COMP	SDG No.:	LB88500
Lab Sample ID:	I3979-10	Matrix:	Solid
Level (low/med):	low	% Solid:	89.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.042	J	1	0.025		0.05	mg/Kg	06/30/2017	07/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/28/2017 12:00:00 AM
Project:	LB88500	Date Received:	6/28/2017 12:00:00 AM
Client Sample ID:	SP-A-COMP	SDG No.:	LB88500
Lab Sample ID:	I3980-03	Matrix:	Solid
Level (low/med):	low	% Solid:	96.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.021	U	1	0.025		0.05	mg/Kg	06/30/2017	07/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/28/2017 12:00:00 AM
Project:	LB88500	Date Received:	6/28/2017 12:00:00 AM
Client Sample ID:	SP-B-COMP	SDG No.:	LB88500
Lab Sample ID:	I3980-06	Matrix:	Solid
Level (low/med):	low	% Solid:	96.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.017	U	1	0.025		0.05	mg/Kg	06/30/2017	07/03/2017	9012B



Report of Analysis

Client:		Date Collected:	6/28/2017 12:00:00 AM
Project:	LB88500	Date Received:	6/28/2017 12:00:00 AM
Client Sample ID:	SP-C-COMP	SDG No.:	LB88500
Lab Sample ID:	I3980-09	Matrix:	Solid
Level (low/med):	low	% Solid:	95.4

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	06/30/2017	07/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/28/2017 12:00:00 AM
Project:	LB88500	Date Received:	6/28/2017 12:00:00 AM
Client Sample ID:	SP-D-COMP	SDG No.:	LB88500
Lab Sample ID:	I3980-12	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.
	Reactive Cyanide	0.03	J	1	0.025		0.05	mg/Kg	06/30/2017	07/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/28/2017 12:00:00 AM
Project:	LB88500	Date Received:	6/28/2017 12:00:00 AM
Client Sample ID:	339-COMP	SDG No.:	LB88500
Lab Sample ID:	I3982-03	Matrix:	Solid
Level (low/med):	low	% Solid:	94.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.026	J	1	0.025		0.05	mg/Kg	06/30/2017	07/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/28/2017 12:00:00 AM
Project:	LB88500	Date Received:	6/28/2017 12:00:00 AM
Client Sample ID:	348-343-COMP	SDG No.:	LB88500
Lab Sample ID:	I3982-08	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	0.032	J	1	0.025		0.05	mg/Kg	06/30/2017	07/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/28/2017 12:00:00 AM
Project:	LB88500	Date Received:	6/28/2017 12:00:00 AM
Client Sample ID:	277-COMP	SDG No.:	LB88500
Lab Sample ID:	I3982-12	Matrix:	Solid
Level (low/med):	low	% Solid:	93

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.027	J	1	0.025		0.05	mg/Kg	06/30/2017	07/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/28/2017 12:00:00 AM
Project:	LB88500	Date Received:	6/28/2017 12:00:00 AM
Client Sample ID:	163-72-11929-COMP	SDG No.:	LB88500
Lab Sample ID:	I3982-17	Matrix:	Solid
Level (low/med):	low	% Solid:	95.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.029	J	1	0.025		0.05	mg/Kg	06/30/2017	07/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/28/2017 12:00:00 AM
Project:	LB88500	Date Received:	6/28/2017 12:00:00 AM
Client Sample ID:	OILY-DRUM-COMP	SDG No.:	LB88500
Lab Sample ID:	I3983-03	Matrix:	Solid
Level (low/med):	low	% Solid:	96.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.027	J	1	0.025		0.05	mg/Kg	06/30/2017	07/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/29/2017 12:00:00 AM
Project:	LB88500	Date Received:	6/29/2017 12:00:00 AM
Client Sample ID:	HR-06-062917-A	SDG No.:	LB88500
Lab Sample ID:	I3991-03	Matrix:	Solid
Level (low/med):	low	% Solid:	91.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.024	U	1	0.025		0.05	mg/Kg	06/30/2017	07/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/29/2017 12:00:00 AM
Project:	LB88500	Date Received:	6/29/2017 12:00:00 AM
Client Sample ID:	HR-06-062917-B	SDG No.:	LB88500
Lab Sample ID:	I3991-06	Matrix:	Solid
Level (low/med):	low	% Solid:	93.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.022	U	1	0.025		0.05	mg/Kg	06/30/2017	07/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/29/2017 12:00:00 AM
Project:	LB88500	Date Received:	6/29/2017 12:00:00 AM
Client Sample ID:	HR-06-062917-C	SDG No.:	LB88500
Lab Sample ID:	I3991-09	Matrix:	Solid
Level (low/med):	low	% Solid:	95.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.024	U	1	0.025		0.05	mg/Kg	06/30/2017	07/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/29/2017 12:00:00 AM
Project:	LB88500	Date Received:	6/29/2017 12:00:00 AM
Client Sample ID:	I-5-(A-H)-COMP	SDG No.:	LB88500
Lab Sample ID:	I3996-02	Matrix:	Solid
Level (low/med):	low	% Solid:	98.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.021	U	1	0.025		0.05	mg/Kg	06/30/2017	07/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/29/2017 12:00:00 AM
Project:	LB88500	Date Received:	6/29/2017 12:00:00 AM
Client Sample ID:	TP2-MH2094-COMP	SDG No.:	LB88500
Lab Sample ID:	I4007-05	Matrix:	Solid
Level (low/med):	low	% Solid:	83.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.018	U	1	0.025		0.049	mg/Kg	06/30/2017	07/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/29/2017 12:00:00 AM
Project:	LB88500	Date Received:	6/29/2017 12:00:00 AM
Client Sample ID:	TP5-MH2097-COMP	SDG No.:	LB88500
Lab Sample ID:	I4007-10	Matrix:	Solid
Level (low/med):	low	% Solid:	87.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.021	U	1	0.025		0.05	mg/Kg	06/30/2017	07/03/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/29/2017 12:00:00 AM
Project:	LB88500	Date Received:	6/29/2017 12:00:00 AM
Client Sample ID:	TP5-MH2097-COMP	SDG No.:	LB88500
Lab Sample ID:	I4007-10	Matrix:	Solid
Level (low/med):	low	% Solid:	87.4

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

Sample ID	Analyte	Result	True Value	%	%	Acceptance	M	Analysis	Analysis	Run
		mg/L								
ICV1	Reactive Cyanide	0.094	0.099	94.9	0	85 - 115		07/03/2017	10:48	LB88500



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB88500

SDG No.: LB88500

Contract: _____ Lab Code: CHEM

Case No.: LB88500

SAS No.: LB88500

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		07/03/2017	10:48	LB88500
CCV2	Reactive Cyanide	0.24	0.25	96	0	90 - 110		07/03/2017	10:55	LB88500
CCV3	Reactive Cyanide	0.25	0.25	100	0	90 - 110		07/03/2017	11:00	LB88500



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88500 **SDG No.:** LB88500
Contract: **Lab Code:** CHEM **Case No.:** LB88500 **SAS No.:** LB88500

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.002	+/-0.005	U		0.005		07/03/2017	10:48	LB88500



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88500

SDG No.: LB88500

Contract:

Lab Code: CHEM

Case No.: LB88500

SAS No.: LB88500

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.002	+/-0.005	U		0.005		07/03/2017	10:48	LB88500
CCB2	Reactive Cyanide	0.0032	+/-0.005	J		0.005		07/03/2017	10:55	LB88500
CCB3	Reactive Cyanide	0.0025	+/-0.005	J		0.005		07/03/2017	11:00	LB88500



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88500

SDG No.: LB88500

Contract: Lab Code: CHEM

Case No.: LB88500

SAS No.: LB88500

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: LB88500

SDG No.: LB88500

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
PB100353BL	Reactive Cyanide	SOLID 0.017	<0.05	Batch Number: U		PB100353 0.05		Prep Date: 07/03/2017	06/30/2017 10:48	LB88500

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB88500 **Level:** LOW **SDG No.:** LB88500
Contract: **Lab Code:** CHEM **Case No.:** LB88500 **SAS No.:** LB88500
Matrix: Solid **Sample ID:** I3979-05 **Client ID:** TP3-MH2095-COMPDUP
Percent Solids for Sample: 90.8 **Duplicate ID** I3979-05DUP **Percent Solids for Spike Sample:** 90.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	0.021	U			