

Daily Analysis Runlog For Sequence/QC Batch ID # LB92530

Review By		Review On				
SubDirectory		LB92530		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP60822,WP60823,WP60824,WP60825,WP60826,WP60827,WP60828				
ICV Standard		WP60830				
CCV Standard		WP60829				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP60831,WP59958,WP60150				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	01/09/18 11:10		OK
2	5.0PPBCN	5.0PPBCN	CAL2	01/09/18 11:10		OK
3	10PPBCN	10PPBCN	CAL3	01/09/18 11:10		OK
4	50PPBCN	50PPBCN	CAL4	01/09/18 11:10		OK
5	100PPBCN	100PPBCN	CAL5	01/09/18 11:10		OK
6	250PPBCN	250PPBCN	CAL6	01/09/18 11:10		OK
7	500PPBCN	500PPBCN	CAL7	01/09/18 11:10		OK
8	ICV1	ICV1	ICV	01/09/18 15:45		OK
9	ICB1	ICB1	ICB	01/09/18 15:45		OK
10	CCV1	CCV1	CCV	01/09/18 15:45		OK
11	CCB1	CCB1	CCB	01/09/18 15:45		OK
12	PB105531BL	PB105531BL	MB	01/09/18 15:45		OK
13	J1018-02	OR-03-010818	SAM	01/09/18 15:45		OK
14	J1018-02DUP	OR-03-010818DUP	DUP	01/09/18 15:45		OK
15	J1022-05	SU-04-010818	SAM	01/09/18 15:45		OK
16	J1023-02	TR-04-010817	SAM	01/09/18 15:45		OK
17	J1044-05	SP-COMP-A	SAM	01/09/18 15:45		OK
18	J1044-07	SP-COMP-B	SAM	01/09/18 15:45		OK
19	J1044-09	SP-COMP-C	SAM	01/09/18 15:53		OK
20	J1044-11	SP-COMP-D	SAM	01/09/18 15:53		OK
21	J1057-01	OWS-1	SAM	01/09/18 15:53		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB92530

Review By		Review On				
SubDirectory		LB92530		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP60822,WP60823,WP60824,WP60825,WP60826,WP60827,WP60828				
ICV Standard		WP60830				
CCV Standard		WP60829				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP60831,WP59958,WP60150				
22	CCV2	CCV2	CCV	01/09/18 15:53		OK
23	CCB2	CCB2	CCB	01/09/18 15:53		OK
24	J1057-02	OWS-2B	SAM	01/09/18 15:53		OK
25	J1057-03	OWS-2A	SAM	01/09/18 15:53		OK
26	J1057-04	OWS-2C	SAM	01/09/18 15:53		OK
27	J1062-11	SB-26-COMP	SAM	01/09/18 15:53		OK
28	J1062-12	SB-27-COMP	SAM	01/09/18 15:53		OK
29	J1062-13	SB-28-COMP	SAM	01/09/18 15:53		OK
30	J1062-14	SB-29-COMP	SAM	01/09/18 15:58		OK
31	J1062-15	SB-30-COMP	SAM	01/09/18 15:58		OK
32	J1011-02DUP	HR-06-010318-ADUP	DUP	01/09/18 15:58		OK
33	CCV3	CCV3	CCV	01/09/18 15:58		OK
34	CCB3	CCB3	CCB	01/09/18 15:58		OK

Report of Analysis

Client:		Date Collected:	1/8/2018 12:00:00 AM
Project:	LB92530	Date Received:	1/8/2018 12:00:00 AM
Client Sample ID:	OR-03-010818	SDG No.:	LB92530
Lab Sample ID:	J1018-02	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	0.0057	U	1	0.025		0.05	mg/Kg	01/09/2018	01/09/2018	9012B

Report of Analysis

Client:		Date Collected:	1/8/2018 12:00:00 AM
Project:	LB92530	Date Received:	1/8/2018 12:00:00 AM
Client Sample ID:	SU-04-010818	SDG No.:	LB92530
Lab Sample ID:	J1022-05	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	0.0043	U	1	0.025		0.05	mg/Kg	01/09/2018	01/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/8/2018 12:00:00 AM
Project:	LB92530	Date Received:	1/8/2018 12:00:00 AM
Client Sample ID:	TR-04-010817	SDG No.:	LB92530
Lab Sample ID:	J1023-02	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	-0.00078	U	1	0.025		0.05	mg/Kg	01/09/2018	01/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/8/2018 12:00:00 AM
Project:	LB92530	Date Received:	1/8/2018 12:00:00 AM
Client Sample ID:	SP-COMP-A	SDG No.:	LB92530
Lab Sample ID:	J1044-05	Matrix:	Solid
Level (low/med):	low	% Solid:	83

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0039	U	1	0.025		0.05	mg/Kg	01/09/2018	01/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/8/2018 12:00:00 AM
Project:	LB92530	Date Received:	1/8/2018 12:00:00 AM
Client Sample ID:	SP-COMP-B	SDG No.:	LB92530
Lab Sample ID:	J1044-07	Matrix:	Solid
Level (low/med):	low	% Solid:	85.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0038	U	1	0.025		0.05	mg/Kg	01/09/2018	01/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/8/2018 12:00:00 AM
Project:	LB92530	Date Received:	1/8/2018 12:00:00 AM
Client Sample ID:	SP-COMP-C	SDG No.:	LB92530
Lab Sample ID:	J1044-09	Matrix:	Solid
Level (low/med):	low	% Solid:	86.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0044	U	1	0.025		0.05	mg/Kg	01/09/2018	01/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/8/2018 12:00:00 AM
Project:	LB92530	Date Received:	1/8/2018 12:00:00 AM
Client Sample ID:	SP-COMP-D	SDG No.:	LB92530
Lab Sample ID:	J1044-11	Matrix:	Solid
Level (low/med):	low	% Solid:	85

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.012	U	1	0.025		0.05	mg/Kg	01/09/2018	01/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/3/2018 12:00:00 AM
Project:	LB92530	Date Received:	1/8/2018 12:00:00 AM
Client Sample ID:	OWS-1	SDG No.:	LB92530
Lab Sample ID:	J1057-01	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.019	U	1	0.025		0.05	mg/Kg	01/09/2018	01/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/3/2018 12:00:00 AM
Project:	LB92530	Date Received:	1/8/2018 12:00:00 AM
Client Sample ID:	OWS-2B	SDG No.:	LB92530
Lab Sample ID:	J1057-02	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	0.015	U	1	0.025		0.05	mg/Kg	01/09/2018	01/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/3/2018 12:00:00 AM
Project:	LB92530	Date Received:	1/8/2018 12:00:00 AM
Client Sample ID:	OWS-2A	SDG No.:	LB92530
Lab Sample ID:	J1057-03	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	0.01	U	1	0.025		0.05	mg/Kg	01/09/2018	01/09/2018	9012B

Report of Analysis

Client:		Date Collected:	1/3/2018 12:00:00 AM
Project:	LB92530	Date Received:	1/8/2018 12:00:00 AM
Client Sample ID:	OWS-2C	SDG No.:	LB92530
Lab Sample ID:	J1057-04	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0087	U	1	0.025		0.05	mg/Kg	01/09/2018	01/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/8/2018 12:00:00 AM
Project:	LB92530	Date Received:	1/8/2018 12:00:00 AM
Client Sample ID:	SB-26-COMP	SDG No.:	LB92530
Lab Sample ID:	J1062-11	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	0.0063	U	1	0.025		0.05	mg/Kg	01/09/2018	01/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/8/2018 12:00:00 AM
Project:	LB92530	Date Received:	1/8/2018 12:00:00 AM
Client Sample ID:	SB-27-COMP	SDG No.:	LB92530
Lab Sample ID:	J1062-12	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	0.0086	U	1	0.025		0.05	mg/Kg	01/09/2018	01/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/8/2018 12:00:00 AM
Project:	LB92530	Date Received:	1/8/2018 12:00:00 AM
Client Sample ID:	SB-28-COMP	SDG No.:	LB92530
Lab Sample ID:	J1062-13	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	0.0052	U	1	0.025		0.05	mg/Kg	01/09/2018	01/09/2018	9012B

Report of Analysis

Client:		Date Collected:	1/8/2018 12:00:00 AM
Project:	LB92530	Date Received:	1/8/2018 12:00:00 AM
Client Sample ID:	SB-29-COMP	SDG No.:	LB92530
Lab Sample ID:	J1062-14	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	0.0045	U	1	0.025		0.05	mg/Kg	01/09/2018	01/09/2018	9012B

Report of Analysis

Client:		Date Collected:	1/8/2018 12:00:00 AM
Project:	LB92530	Date Received:	1/8/2018 12:00:00 AM
Client Sample ID:	SB-30-COMP	SDG No.:	LB92530
Lab Sample ID:	J1062-15	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	0.0036	U	1	0.025		0.05	mg/Kg	01/09/2018	01/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/8/2018 12:00:00 AM
Project:	LB92530	Date Received:	1/8/2018 12:00:00 AM
Client Sample ID:	SB-30-COMP	SDG No.:	LB92530
Lab Sample ID:	J1062-15	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB92530

SDG No.: LB92530

Contract: _____ **Lab Code:** CHEM

Case No.: LB92530

SAS No.: LB92530

Initial Calibration Source:

Continuing Calibration Source: _____

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Reactive Cyanide	0.097	0.099	98	0	85 - 115		01/09/2018	15:45	LB92530



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92530

SDG No.: LB92530

Contract: _____ Lab Code: CHEM

Case No.: LB92530

SAS No.: LB92530

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	0.25	0.25	100	0	90 - 110		01/09/2018	15:45	LB92530
CCV2	Reactive Cyanide	0.25	0.25	100	0	90 - 110		01/09/2018	15:53	LB92530
CCV3	Reactive Cyanide	0.26	0.25	104	0	90 - 110		01/09/2018	15:58	LB92530



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	LB92530	SDG No.:	LB92530				
Contract:		Lab Code:	CHEM	Case No.:	LB92530	SAS No.:	LB92530

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.0006	+/-0.005	U		0.005		01/09/2018	15:45	LB92530



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92530

SDG No.: LB92530

Contract:

Lab Code: CHEM

Case No.: LB92530

SAS No.: LB92530

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00045	+/-0.005	U		0.005		01/09/2018	15:45	LB92530
CCB2	Reactive Cyanide	0.00052	+/-0.005	U		0.005		01/09/2018	15:53	LB92530
CCB3	Reactive Cyanide	0.00056	+/-0.005	U		0.005		01/09/2018	15:58	LB92530



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92530

SDG No.: LB92530

Contract: Lab Code: CHEM

Case No.: LB92530

SAS No.: LB92530

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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- 3b -
PREPARATION BLANK SUMMARY

Client: LB92530

SDG No.: LB92530

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
PB105531BL	Reactive Cyanide	SOLID 0.0036	<0.05	Batch Number: U		PB105531 0.05		Prep Date: 01/09/2018	01/09/2018 15:45	LB92530

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92530 **Level:** LOW **SDG No.:** LB92530
Contract: **Lab Code:** CHEM **Case No.:** LB92530 **SAS No.:** LB92530
Matrix: Solid **Sample ID:** J1011-02 **Client ID:** HR-06-010318-ADUP
Percent Solids for Sample: 100 **Duplicate ID** J1011-02DUP **Percent Solids for Spike Sample:**

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20			0.004	U	200.0		

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DUPLICATE SAMPLE SUMMARY

Client: LB92530 Level: LOW SDG No.: LB92530
Contract: _____ Lab Code: CHEM Case No.: LB92530 SAS No.: LB92530
Matrix: Solid Sample ID: J1018-02 Client ID: OR-03-010818DUP
Percent Solids for Sample: 100 Duplicate ID J1018-02DUP Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	0.0034	U			