

Daily Analysis Runlog For Sequence/QC Batch ID # LB89520

Review By		Review On				
SubDirectory		LB89520		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57276,WP57277,WP57278,WP57278,WP57279,WP57280,WP57281,WP57282,WP57283				
ICV Standard		wp57286				
CCV Standard		WP57285				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57284,WP55355,WP55836				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	08/16/17 08:49		OK
2	5.0PPBCN	5.0PPBCN	CAL2	08/16/17 08:49		OK
3	10PPBCN	10PPBCN	CAL3	08/16/17 08:49		OK
4	50PPBCN	50PPBCN	CAL4	08/16/17 08:49		OK
5	100PPBCN	100PPBCN	CAL5	08/16/17 08:49		OK
6	250PPBCN	250PPBCN	CAL6	08/16/17 08:49		OK
7	500PPBCN	500PPBCN	CAL7	08/16/17 08:49		OK
8	ICV1	ICV1	ICV	08/16/17 10:59		OK
9	ICB1	ICB1	ICB	08/16/17 10:59		OK
10	CCV1	CCV1	CCV	08/16/17 10:59		OK
11	CCB1	CCB1	CCB	08/16/17 10:59		OK
12	PB101554BL	PB101554BL	MB	08/16/17 10:59		OK
13	I4791-11	SB-27-COMP	SAM	08/16/17 10:59		OK
14	I4791-11DUP	SB-27-COMPDUP	DUP	08/16/17 10:59		OK
15	I4791-12	SB-33-COMP	SAM	08/16/17 10:59		OK
16	I4791-13	SB-22-COMP	SAM	08/16/17 10:59		OK
17	I4791-14	SB-21-COMP	SAM	08/16/17 10:59		OK
18	I4791-15	SB-19-COMP	SAM	08/16/17 11:07		OK
19	I4792-15	SB-05-COMP	SAM	08/16/17 11:07		OK
20	I4792-16	SB-01-COMP	SAM	08/16/17 11:07		OK
21	CCV2	CCV2	CCV	08/16/17 11:07		OK

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ICV Standard		wp57286				
CCV Standard		WP57285				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57284,WP55355,WP55836				
22	CCB2	CCB2	CCB	08/16/17 11:07		OK
23	I4792-18	SB-03-COMP	SAM	08/16/17 11:07		OK
24	I4792-19	SB-16-COMP	SAM	08/16/17 11:07		OK
25	I4793-03	EO-02-081417-A	SAM	08/16/17 11:07		OK
26	I4793-06	EO-02-081417-B	SAM	08/16/17 11:07		OK
27	I4793-09	EO-02-081417-C	SAM	08/16/17 11:11		OK
28	I4795-03	SP-1-COMP	SAM	08/16/17 11:11		OK
29	I4798-05	DRUM-1-6-COMP	SAM	08/16/17 11:12		OK
30	I4792-14	SB-06-COMP	SAM	08/16/17 11:37		OK
31	I4792-17	SB-02-COMP	SAM	08/16/17 11:37		OK
32	CCV3	CCV3	CCV	08/16/17 11:37		OK
33	CCB3	CCB3	CCB	08/16/17 11:37		OK



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Report of Analysis

Client:		Date Collected:	8/11/2017 12:00:00 AM
Project:	LB89520	Date Received:	8/14/2017 12:00:00 AM
Client Sample ID:	SB-27-COMP	SDG No.:	LB89520
Lab Sample ID:	I4791-11	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	0.0067	U	1	0.025		0.05	mg/Kg	08/15/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/11/2017 12:00:00 AM
Project:	LB89520	Date Received:	8/14/2017 12:00:00 AM
Client Sample ID:	SB-33-COMP	SDG No.:	LB89520
Lab Sample ID:	I4791-12	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	0.0025	U	1	0.025		0.05	mg/Kg	08/15/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/11/2017 12:00:00 AM
Project:	LB89520	Date Received:	8/14/2017 12:00:00 AM
Client Sample ID:	SB-22-COMP	SDG No.:	LB89520
Lab Sample ID:	I4791-13	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	0.0016	U	1	0.025		0.05	mg/Kg	08/15/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/11/2017 12:00:00 AM
Project:	LB89520	Date Received:	8/14/2017 12:00:00 AM
Client Sample ID:	SB-21-COMP	SDG No.:	LB89520
Lab Sample ID:	I4791-14	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	0.0064	U	1	0.025		0.05	mg/Kg	08/15/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/11/2017 12:00:00 AM
Project:	LB89520	Date Received:	8/14/2017 12:00:00 AM
Client Sample ID:	SB-19-COMP	SDG No.:	LB89520
Lab Sample ID:	I4791-15	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	0.0064	U	1	0.025		0.05	mg/Kg	08/15/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/14/2017 12:00:00 AM
Project:	LB89520	Date Received:	8/14/2017 12:00:00 AM
Client Sample ID:	SB-06-COMP	SDG No.:	LB89520
Lab Sample ID:	I4792-14	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	0.0037	U	1	0.025		0.05	mg/Kg	08/15/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/14/2017 12:00:00 AM
Project:	LB89520	Date Received:	8/14/2017 12:00:00 AM
Client Sample ID:	SB-05-COMP	SDG No.:	LB89520
Lab Sample ID:	I4792-15	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	0.0075	U	1	0.025		0.05	mg/Kg	08/15/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/14/2017 12:00:00 AM
Project:	LB89520	Date Received:	8/14/2017 12:00:00 AM
Client Sample ID:	SB-01-COMP	SDG No.:	LB89520
Lab Sample ID:	I4792-16	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	0.0084	U	1	0.025		0.05	mg/Kg	08/15/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/14/2017 12:00:00 AM
Project:	LB89520	Date Received:	8/14/2017 12:00:00 AM
Client Sample ID:	SB-02-COMP	SDG No.:	LB89520
Lab Sample ID:	I4792-17	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	0.0031	U	1	0.025		0.05	mg/Kg	08/15/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/14/2017 12:00:00 AM
Project:	LB89520	Date Received:	8/14/2017 12:00:00 AM
Client Sample ID:	SB-03-COMP	SDG No.:	LB89520
Lab Sample ID:	I4792-18	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	0.0053	U	1	0.025		0.05	mg/Kg	08/15/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/14/2017 12:00:00 AM
Project:	LB89520	Date Received:	8/14/2017 12:00:00 AM
Client Sample ID:	SB-16-COMP	SDG No.:	LB89520
Lab Sample ID:	I4792-19	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	0.0055	U	1	0.025		0.05	mg/Kg	08/15/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/14/2017 12:00:00 AM
Project:	LB89520	Date Received:	8/14/2017 12:00:00 AM
Client Sample ID:	EO-02-081417-A	SDG No.:	LB89520
Lab Sample ID:	I4793-03	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	0.0049	U	1	0.025		0.05	mg/Kg	08/15/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/14/2017 12:00:00 AM
Project:	LB89520	Date Received:	8/14/2017 12:00:00 AM
Client Sample ID:	EO-02-081417-B	SDG No.:	LB89520
Lab Sample ID:	I4793-06	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	0.0048	U	1	0.025		0.05	mg/Kg	08/15/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/14/2017 12:00:00 AM
Project:	LB89520	Date Received:	8/14/2017 12:00:00 AM
Client Sample ID:	EO-02-081417-C	SDG No.:	LB89520
Lab Sample ID:	I4793-09	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.
	Reactive Cyanide	0.0067	U	1	0.025		0.05	mg/Kg	08/15/2017	08/16/2017	9012B

Report of Analysis

Client:		Date Collected:	8/14/2017 12:00:00 AM
Project:	LB89520	Date Received:	8/14/2017 12:00:00 AM
Client Sample ID:	SP-1-COMP	SDG No.:	LB89520
Lab Sample ID:	I4795-03	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	0.0044	U	1	0.025		0.05	mg/Kg	08/15/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/14/2017 12:00:00 AM
Project:	LB89520	Date Received:	8/14/2017 12:00:00 AM
Client Sample ID:	DRUM-1-6-COMP	SDG No.:	LB89520
Lab Sample ID:	I4798-05	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	0.0059	U	1	0.025		0.049	mg/Kg	08/15/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/14/2017 12:00:00 AM
Project:	LB89520	Date Received:	8/14/2017 12:00:00 AM
Client Sample ID:	DRUM-1-6-COMP	SDG No.:	LB89520
Lab Sample ID:	I4798-05	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB89520

SDG No.: LB89520

Contract: _____ Lab Code: CHEM

Case No.: LB89520

SAS No.: LB89520

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		08/16/2017	10:59	LB89520
CCV2	Reactive Cyanide	0.25	0.25	100	0	90 - 110		08/16/2017	11:07	LB89520
CCV3	Reactive Cyanide	0.26	0.25	104	0	90 - 110		08/16/2017	11:37	LB89520



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89520

SDG No.: LB89520

Contract:

Lab Code: CHEM

Case No.: LB89520

SAS No.: LB89520

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00054	+/-0.005	U		0.005		08/16/2017	10:59	LB89520



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89520

SDG No.: LB89520

Contract:

Lab Code: CHEM

Case No.: LB89520

SAS No.: LB89520

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.0005	+/-0.005	U		0.005		08/16/2017	10:59	LB89520
CCB2	Reactive Cyanide	0.00052	+/-0.005	U		0.005		08/16/2017	11:07	LB89520
CCB3	Reactive Cyanide	0.00044	+/-0.005	U		0.005		08/16/2017	11:37	LB89520



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89520

SDG No.: LB89520

Contract: Lab Code: CHEM

Case No.: LB89520

SAS No.: LB89520

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: LB89520

SDG No.: LB89520

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
PB101554BL	Reactive Cyanide	SOLID 0.0059	<0.05	Batch Number: U		PB101554 0.05		Prep Date: 08/16/2017	08/15/2017 10:59	LB89520

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB89520 **Level:** LOW **SDG No.:** LB89520
Contract: **Lab Code:** CHEM **Case No.:** LB89520 **SAS No.:** LB89520
Matrix: Solid **Sample ID:** I4791-11 **Client ID:** SB-27-COMPDUP
Percent Solids for Sample: 100 **Duplicate ID** I4791-11DUP **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	0.0051	U			