

Daily Analysis Runlog For Sequence/QC Batch ID # LB89602

Review By		Review On				
SubDirectory		LB89602		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57351,WP57352,WP57353,WP57354,WP57355,WP57356,WP57357,WP57358				
ICV Standard		wp57360				
CCV Standard		wp57359				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57350,WP55355,WP55836				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	08/18/17 13:11		OK
2	5.0PPBCN	5.0PPBCN	CAL2	08/18/17 13:12		OK
3	10PPBCN	10PPBCN	CAL3	08/18/17 13:12		OK
4	50PPBCN	50PPBCN	CAL4	08/18/17 13:12		OK
5	100PPBCN	100PPBCN	CAL5	08/18/17 13:12		OK
6	250PPBCN	250PPBCN	CAL6	08/18/17 13:12		OK
7	500PPBCN	500PPBCN	CAL7	08/18/17 13:12		OK
8	ICV1	ICV1	ICV	08/18/17 16:48		OK
9	ICB1	ICB1	ICB	08/18/17 16:48		OK
10	CCV1	CCV1	CCV	08/18/17 16:48		OK
11	CCB1	CCB1	CCB	08/18/17 16:48		OK
12	PB101677BL	PB101677BL	MB	08/18/17 16:48		OK
13	I4849-05	CAPTAINSCOVE-WC	SAM	08/18/17 16:48		OK
14	I4849-05DUP	CAPTAINSCOVE-WC	DUP	08/18/17 16:56		OK
15	I4872-21	SB-07-COMP	SAM	08/18/17 16:56		OK
16	I4872-22	SB-04-COMP	SAM	08/18/17 16:56		OK
17	I4872-23	SB-08-COMP	SAM	08/18/17 16:56		OK
18	I4872-24	SB-11-COMP	SAM	08/18/17 16:56		OK
19	I4872-25	SB-12-COMP	SAM	08/18/17 16:56		OK
20	I4872-26	SB-13-COMP	SAM	08/18/17 16:56		OK
21	I4872-27	SB-14-COMP	SAM	08/18/17 16:56		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB89602

Review By		Review On				
SubDirectory		LB89602		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57351,WP57352,WP57353,WP57354,WP57355,WP57356,WP57357,WP57358				
ICV Standard		wp57360				
CCV Standard		wp57359				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57350,WP55355,WP55836				
22	CCV2	CCV2	CCV	08/18/17 16:56		OK
23	CCB2	CCB2	CCB	08/18/17 16:56		OK
24	I4872-28	SB-15-COMP	SAM	08/18/17 16:56		OK
25	I4872-29	SB-20-COMP	SAM	08/18/17 17:03		OK
26	I4872-30	SB-31-COMP	SAM	08/18/17 17:03		OK
27	I4875-03	CL-02-081717-A	SAM	08/18/17 17:03		OK
28	I4875-06	CL-02-081717-B	SAM	08/18/17 17:03		OK
29	I4875-09	CL-02-081717-C	SAM	08/18/17 17:03		OK
30	I4875-12	CL-02-081717-D	SAM	08/18/17 17:03		OK
31	I4875-15	CL-02-081717-E	SAM	08/18/17 17:03		OK
32	I4879-03	6706-AA-081717	SAM	08/18/17 17:03		OK
33	CCV3	CCV3	CCV	08/18/17 17:03		OK
34	CCB3	CCB3	CCB	08/18/17 17:03		OK



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Report of Analysis

Client:		Date Collected:	8/15/2017 12:00:00 AM
Project:	LB89602	Date Received:	8/16/2017 12:00:00 AM
Client Sample ID:	CAPTAINSCOVE-WC-002	SDG No.:	LB89602
Lab Sample ID:	I4849-05	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	-0.0051	U	1	0.025		0.05	mg/Kg	08/18/2017	08/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/15/2017 12:00:00 AM
Project:	LB89602	Date Received:	8/17/2017 12:00:00 AM
Client Sample ID:	SB-07-COMP	SDG No.:	LB89602
Lab Sample ID:	I4872-21	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	0.0045	U	1	0.025		0.05	mg/Kg	08/18/2017	08/18/2017	9012B

Report of Analysis

Client:		Date Collected:	8/15/2017 12:00:00 AM
Project:	LB89602	Date Received:	8/17/2017 12:00:00 AM
Client Sample ID:	SB-04-COMP	SDG No.:	LB89602
Lab Sample ID:	I4872-22	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	0.00074	U	1	0.025		0.05	mg/Kg	08/18/2017	08/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/15/2017 12:00:00 AM
Project:	LB89602	Date Received:	8/17/2017 12:00:00 AM
Client Sample ID:	SB-08-COMP	SDG No.:	LB89602
Lab Sample ID:	I4872-23	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	0.00027	U	1	0.025		0.05	mg/Kg	08/18/2017	08/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/15/2017 12:00:00 AM
Project:	LB89602	Date Received:	8/17/2017 12:00:00 AM
Client Sample ID:	SB-11-COMP	SDG No.:	LB89602
Lab Sample ID:	I4872-24	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	0.0017	U	1	0.025		0.05	mg/Kg	08/18/2017	08/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/15/2017 12:00:00 AM
Project:	LB89602	Date Received:	8/17/2017 12:00:00 AM
Client Sample ID:	SB-12-COMP	SDG No.:	LB89602
Lab Sample ID:	I4872-25	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	0.007	U	1	0.025		0.05	mg/Kg	08/18/2017	08/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/15/2017 12:00:00 AM
Project:	LB89602	Date Received:	8/17/2017 12:00:00 AM
Client Sample ID:	SB-13-COMP	SDG No.:	LB89602
Lab Sample ID:	I4872-26	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	0.0047	U	1	0.025		0.049	mg/Kg	08/18/2017	08/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/16/2017 12:00:00 AM
Project:	LB89602	Date Received:	8/17/2017 12:00:00 AM
Client Sample ID:	SB-14-COMP	SDG No.:	LB89602
Lab Sample ID:	I4872-27	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	0.0031	U	1	0.025		0.05	mg/Kg	08/18/2017	08/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/16/2017 12:00:00 AM
Project:	LB89602	Date Received:	8/17/2017 12:00:00 AM
Client Sample ID:	SB-15-COMP	SDG No.:	LB89602
Lab Sample ID:	I4872-28	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	0.0078	U	1	0.025		0.049	mg/Kg	08/18/2017	08/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/16/2017 12:00:00 AM
Project:	LB89602	Date Received:	8/17/2017 12:00:00 AM
Client Sample ID:	SB-20-COMP	SDG No.:	LB89602
Lab Sample ID:	I4872-29	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	-0.0021	U	1	0.025		0.05	mg/Kg	08/18/2017	08/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/16/2017 12:00:00 AM
Project:	LB89602	Date Received:	8/17/2017 12:00:00 AM
Client Sample ID:	SB-31-COMP	SDG No.:	LB89602
Lab Sample ID:	I4872-30	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	-0.021	U	1	0.025		0.049	mg/Kg	08/18/2017	08/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/17/2017 12:00:00 AM
Project:	LB89602	Date Received:	8/17/2017 12:00:00 AM
Client Sample ID:	CL-02-081717-A	SDG No.:	LB89602
Lab Sample ID:	I4875-03	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	-0.0009	U	1	0.025		0.05	mg/Kg	08/18/2017	08/18/2017	9012B

Report of Analysis

Client:		Date Collected:	8/17/2017 12:00:00 AM
Project:	LB89602	Date Received:	8/17/2017 12:00:00 AM
Client Sample ID:	CL-02-081717-B	SDG No.:	LB89602
Lab Sample ID:	I4875-06	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	-0.0026	U	1	0.025		0.049	mg/Kg	08/18/2017	08/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/17/2017 12:00:00 AM
Project:	LB89602	Date Received:	8/17/2017 12:00:00 AM
Client Sample ID:	CL-02-081717-C	SDG No.:	LB89602
Lab Sample ID:	I4875-09	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	-0.0041	U	1	0.025		0.049	mg/Kg	08/18/2017	08/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/17/2017 12:00:00 AM
Project:	LB89602	Date Received:	8/17/2017 12:00:00 AM
Client Sample ID:	CL-02-081717-D	SDG No.:	LB89602
Lab Sample ID:	I4875-12	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	-0.0038	U	1	0.025		0.05	mg/Kg	08/18/2017	08/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/17/2017 12:00:00 AM
Project:	LB89602	Date Received:	8/17/2017 12:00:00 AM
Client Sample ID:	CL-02-081717-E	SDG No.:	LB89602
Lab Sample ID:	I4875-15	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	08/18/2017	08/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/17/2017 12:00:00 AM
Project:	LB89602	Date Received:	8/17/2017 12:00:00 AM
Client Sample ID:	6706-AA-081717	SDG No.:	LB89602
Lab Sample ID:	I4879-03	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	-0.00077	U	1	0.025		0.05	mg/Kg	08/18/2017	08/18/2017	9012B



Report of Analysis

Client:		Date Collected:	8/17/2017 12:00:00 AM
Project:	LB89602	Date Received:	8/17/2017 12:00:00 AM
Client Sample ID:	6706-AA-081717	SDG No.:	LB89602
Lab Sample ID:	I4879-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

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

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89602

SDG No.: LB89602

Contract:

Lab Code: CHEM

Case No.: LB89602

SAS No.: LB89602

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00077	+/-0.005	U		0.005		08/18/2017	16:48	LB89602



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89602

SDG No.: LB89602

Contract:

Lab Code: CHEM

Case No.: LB89602

SAS No.: LB89602

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.0019	+/-0.005	U		0.005		08/18/2017	16:48	LB89602
CCB2	Reactive Cyanide	0.0013	+/-0.005	U		0.005		08/18/2017	16:56	LB89602
CCB3	Reactive Cyanide	0.00099	+/-0.005	U		0.005		08/18/2017	17:03	LB89602



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB89602

SDG No.:

LB89602

Contract:

Lab Code:

CHEM

Case No.:

LB89602

SAS No.:

LB89602

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: LB89602

SDG No.: LB89602

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
PB101677BL	Reactive Cyanide	SOLID 0.007	<0.05	Batch Number: U		PB101677 0.05		Prep Date: 08/18/2017	08/18/2017 16:48	LB89602

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB89602 **Level:** LOW **SDG No.:** LB89602
Contract: **Lab Code:** CHEM **Case No.:** LB89602 **SAS No.:** LB89602
Matrix: Solid **Sample ID:** I4849-05 **Client ID:** CAPTAINSCOVE-WC-002DUP
Percent Solids for Sample: 100 **Duplicate ID** I4849-05DUP **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	0.0097	U			