

Daily Analysis Runlog For Sequence/QC Batch ID # LB95944

Review By		Review On				
SubDirectory		LB95944		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP65208,WP65209,WP65210,WP65211,WP65212,WP65213,WP65214				
ICV Standard		WP65216				
CCV Standard		WP65215				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP65217,WP64695,WP64696				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/12/18 08:13		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/12/18 08:13		OK
3	10PPBCN	10PPBCN	CAL3	06/12/18 08:13		OK
4	50PPBCN	50PPBCN	CAL4	06/12/18 08:13		OK
5	100PPBCN	100PPBCN	CAL5	06/12/18 08:13		OK
6	250PPBCN	250PPBCN	CAL6	06/12/18 08:13		OK
7	500PPBCN	500PPBCN	CAL7	06/12/18 08:13		OK
8	ICV1	ICV1	ICV	06/12/18 08:55		OK
9	ICB1	ICB1	ICB	06/12/18 08:55		OK
10	CCV1	CCV1	CCV	06/12/18 08:55		OK
11	CCB1	CCB1	CCB	06/12/18 08:55		OK
12	PB110116BL	PB110116BL	MB	06/12/18 08:55		OK
13	J2932-04	TP-A-S	SAM	06/12/18 08:55		OK
14	J2932-04DUP	TP-A-SDUP	DUP	06/12/18 08:55		OK
15	J2932-08	TP-D-DB-1-2	SAM	06/12/18 08:56		OK
16	J3248-02	EO-02-060818-A	SAM	06/12/18 08:56		OK
17	J3248-04	EO-02-060818-B	SAM	06/12/18 08:56		OK
18	J3248-06	EO-02-060818-C	SAM	06/12/18 08:56		OK
19	J3372-04	SB-29COMP	SAM	06/12/18 09:03		OK
20	J3372-05	SB-30COMP	SAM	06/12/18 09:03		OK
21	J3372-06	SB-31COMP	SAM	06/12/18 09:03		OK

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ICV Standard		WP65216				
CCV Standard		WP65215				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP65217,WP64695,WP64696				
22	CCV2	CCV2	CCV	06/12/18 09:03		OK
23	CCB2	CCB2	CCB	06/12/18 09:03		OK
24	J3414-01	PGWPAL-OIL-06061	SAM	06/12/18 09:03		OK
25	J3415-07	SB-32COMP	SAM	06/12/18 09:03		OK
26	J3415-08	SB-33COMP	SAM	06/12/18 09:03		OK
27	J3415-09	SB-34COMP	SAM	06/12/18 09:03		OK
28	J3415-10	SB-35COMP	SAM	06/12/18 09:03		OK
29	J3415-11	SB-36COMP	SAM	06/12/18 09:03		OK
30	J3415-12	SB-37COMP	SAM	06/12/18 09:07		OK
31	CCV3	CCV3	CCV	06/12/18 09:07		OK
32	CCB3	CCB3	CCB	06/12/18 09:07		OK



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Report of Analysis

Client:		Date Collected:	6/8/2018 12:00:00 AM
Project:	LB95944	Date Received:	6/8/2018 12:00:00 AM
Client Sample ID:	TP-A-S	SDG No.:	LB95944
Lab Sample ID:	J2932-04	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	-0.0013	U	1	0.025		0.05	mg/Kg	06/11/2018	06/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/8/2018 12:00:00 AM
Project:	LB95944	Date Received:	6/8/2018 12:00:00 AM
Client Sample ID:	TP-D-DB-1-2	SDG No.:	LB95944
Lab Sample ID:	J2932-08	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	06/11/2018	06/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/8/2018 12:00:00 AM
Project:	LB95944	Date Received:	6/8/2018 12:00:00 AM
Client Sample ID:	EO-02-060818-A	SDG No.:	LB95944
Lab Sample ID:	J3248-02	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	0.0017	U	1	0.025		0.05	mg/Kg	06/11/2018	06/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/8/2018 12:00:00 AM
Project:	LB95944	Date Received:	6/8/2018 12:00:00 AM
Client Sample ID:	EO-02-060818-B	SDG No.:	LB95944
Lab Sample ID:	J3248-04	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	0.0037	U	1	0.025		0.05	mg/Kg	06/11/2018	06/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/8/2018 12:00:00 AM
Project:	LB95944	Date Received:	6/8/2018 12:00:00 AM
Client Sample ID:	EO-02-060818-C	SDG No.:	LB95944
Lab Sample ID:	J3248-06	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	0.00067	U	1	0.025		0.05	mg/Kg	06/11/2018	06/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/6/2018 12:00:00 AM
Project:	LB95944	Date Received:	6/6/2018 12:00:00 AM
Client Sample ID:	SB-29COMP	SDG No.:	LB95944
Lab Sample ID:	J3372-04	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	0.00058	U	1	0.025		0.05	mg/Kg	06/11/2018	06/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/6/2018 12:00:00 AM
Project:	LB95944	Date Received:	6/6/2018 12:00:00 AM
Client Sample ID:	SB-30COMP	SDG No.:	LB95944
Lab Sample ID:	J3372-05	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	-0.00045	U	1	0.025		0.05	mg/Kg	06/11/2018	06/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/6/2018 12:00:00 AM
Project:	LB95944	Date Received:	6/6/2018 12:00:00 AM
Client Sample ID:	SB-31COMP	SDG No.:	LB95944
Lab Sample ID:	J3372-06	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	0.00024	U	1	0.025		0.05	mg/Kg	06/11/2018	06/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/6/2018 12:00:00 AM
Project:	LB95944	Date Received:	6/7/2018 12:00:00 AM
Client Sample ID:	PGWPAL-OIL-060618	SDG No.:	LB95944
Lab Sample ID:	J3414-01	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	-0.0032	U	1	0.025		0.05	mg/Kg	06/11/2018	06/12/2018	9012B

Report of Analysis

Client:		Date Collected:	6/7/2018 12:00:00 AM
Project:	LB95944	Date Received:	6/7/2018 12:00:00 AM
Client Sample ID:	SB-32COMP	SDG No.:	LB95944
Lab Sample ID:	J3415-07	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	06/11/2018	06/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/7/2018 12:00:00 AM
Project:	LB95944	Date Received:	6/7/2018 12:00:00 AM
Client Sample ID:	SB-33COMP	SDG No.:	LB95944
Lab Sample ID:	J3415-08	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	0.0013	U	1	0.025		0.05	mg/Kg	06/11/2018	06/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/7/2018 12:00:00 AM
Project:	LB95944	Date Received:	6/7/2018 12:00:00 AM
Client Sample ID:	SB-34COMP	SDG No.:	LB95944
Lab Sample ID:	J3415-09	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	-0.0013	U	1	0.025		0.05	mg/Kg	06/11/2018	06/12/2018	9012B

Report of Analysis

Client:		Date Collected:	6/7/2018 12:00:00 AM
Project:	LB95944	Date Received:	6/7/2018 12:00:00 AM
Client Sample ID:	SB-35COMP	SDG No.:	LB95944
Lab Sample ID:	J3415-10	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	06/11/2018	06/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/7/2018 12:00:00 AM
Project:	LB95944	Date Received:	6/7/2018 12:00:00 AM
Client Sample ID:	SB-36COMP	SDG No.:	LB95944
Lab Sample ID:	J3415-11	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	0.00057	U	1	0.025		0.05	mg/Kg	06/11/2018	06/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/7/2018 12:00:00 AM
Project:	LB95944	Date Received:	6/7/2018 12:00:00 AM
Client Sample ID:	SB-37COMP	SDG No.:	LB95944
Lab Sample ID:	J3415-12	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	0.029	J	1	0.025		0.05	mg/Kg	06/11/2018	06/12/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/7/2018 12:00:00 AM
Project:	LB95944	Date Received:	6/7/2018 12:00:00 AM
Client Sample ID:	SB-37COMP	SDG No.:	LB95944
Lab Sample ID:	J3415-12	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB95944

SDG No.: LB95944

Contract: _____ Lab Code: CHEM

Case No.: LB95944

SAS No.: LB95944

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Reactive Cyanide	0.24	0.25	96		90 - 110		06/12/2018	08:55	LB95944
CCV2	Reactive Cyanide	0.25	0.25	100		90 - 110		06/12/2018	09:03	LB95944
CCV3	Reactive Cyanide	0.26	0.25	104		90 - 110		06/12/2018	09:07	LB95944



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95944

SDG No.: LB95944

Contract:

Lab Code: CHEM

Case No.: LB95944

SAS No.: LB95944

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.0004	+/-0.005	U		0.005		06/12/2018	08:55	LB95944

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0	+/-0.005	U		0.005		06/12/2018	08:55	LB95944
CCB2	Reactive Cyanide	0.00031	+/-0.005	U		0.005		06/12/2018	09:03	LB95944
CCB3	Reactive Cyanide	0.00022	+/-0.005	U		0.005		06/12/2018	09:07	LB95944



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95944

SDG No.: LB95944

Contract: Lab Code: CHEM

Case No.: LB95944

SAS No.: LB95944

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: LB95944

SDG No.: LB95944

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
PB110116BL	Reactive Cyanide	SOLID -0.0018	<0.05	Batch Number: U		PB110116 0.05		Prep Date: 06/12/2018	06/11/2018 08:55	LB95944

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95944 **Level:** LOW **SDG No.:** LB95944
Contract: _____ **Lab Code:** CHEM **Case No.:** LB95944 **SAS No.:** LB95944
Matrix: Solid **Sample ID:** J2932-04 **Client ID:** TP-A-SDUP
Percent Solids for Sample: 100 **Duplicate ID** J2932-04DUP **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	-0.00097	U			