

Daily Analysis Runlog For Sequence/QC Batch ID # LB94816

Review By		Review On				
SubDirectory		LB94816		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63891,WP63892,WP63893,WP63894,WP63895,WP63896,WP63897				
ICV Standard		WP63899				
CCV Standard		WP63898				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP63900,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	04/23/18 12:57		
2	5.0PPBCN	5.0PPBCN	CAL2	04/23/18 12:57		
3	10PPBCN	10PPBCN	CAL3	04/23/18 12:57		
4	50PPBCN	50PPBCN	CAL4	04/23/18 12:57		
5	100PPBCN	100PPBCN	CAL5	04/23/18 12:57		
6	250PPBCN	250PPBCN	CAL6	04/23/18 12:57		
7	500PPBCN	500PPBCN	CAL7	04/23/18 12:57		
8	ICV1	ICV1	ICV	04/23/18 13:46		
9	ICB1	ICB1	ICB	04/23/18 13:46		
10	CCV1	CCV1	CCV	04/23/18 13:46		
11	CCB1	CCB1	CCB	04/23/18 13:46		
12	PB108489BL	PB108489BL	MB	04/23/18 13:46		
13	J2152-04	BU-03-042018	SAM	04/23/18 13:46		
14	J2152-04DUP	BU-03-042018DUP	DUP	04/23/18 13:46		
15	J2161-06	OR-03-042018	SAM	04/23/18 13:46		
16	J2482-07	NORTHLAWN-PREC	SAM	04/23/18 13:46		
17	J2482-08	NORTHLAWN-PREC	SAM	04/23/18 13:46		
18	J2482-09	NORTHLAWN-PREC	SAM	04/23/18 13:46		
19	J2490-03	MDP-WC-1	SAM	04/23/18 13:53		
20	J2493-03	RS-RO-RT-27438	SAM	04/23/18 13:53		
21	J2495-02	RS-RO-1-7-A	SAM	04/23/18 13:53		

Daily Analysis Runlog For Sequence/QC Batch ID # LB94816

Review By		Review On				
SubDirectory		LB94816		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63891,WP63892,WP63893,WP63894,WP63895,WP63896,WP63897				
ICV Standard		WP63899				
CCV Standard		WP63898				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP63900,WP59958,WP60878				
22	CCV2	CCV2	CCV	04/23/18 13:53		
23	CCB2	CCB2	CCB	04/23/18 13:53		
24	J2495-04	RS-RO-1-7-B	SAM	04/23/18 13:53		
25	J2496-03	RS-RO-1-3	SAM	04/23/18 13:53		
26	J2499-02	355-285-279	SAM	04/23/18 13:53		
27	J2499-04	278	SAM	04/23/18 13:53		
28	J2503-04	CONCRETE	SAM	04/23/18 14:01		
29	J2503-06	RBR-47184RT	SAM	04/23/18 14:01		
30	J2503-08	CHRT25773	SAM	04/23/18 14:01		
31	PB108501BL	PB108501BL	MB	04/23/18 14:01		
32	J2500-02	RBR-400028-2171	SAM	04/23/18 14:24		
33	J2503-02	DRUM-2-1-PPE	SAM	04/23/18 14:24		
34	CCV3	CCV3	CCV	04/23/18 14:24		
35	CCB3	CCB3	CCB	04/23/18 14:24		
36	J2498-02	VB16206-VB16122	SAM	04/23/18 14:24		
37	J2498-02DUP	VB16206-VB16122D	DUP	04/23/18 14:24		
38	J2501-03	FADW4807L	SAM	04/23/18 14:24		
39	CCV4	CCV4	CCV	04/23/18 14:24		
40	CCB4	CCB4	CCB	04/23/18 14:24		



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94816	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	BU-03-042018	SDG No.:	LB94816
Lab Sample ID:	J2152-04	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	-0.0074	U	1	0.025		0.05	mg/Kg	04/23/2018	04/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94816	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	OR-03-042018	SDG No.:	LB94816
Lab Sample ID:	J2161-06	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	-0.0068	U	1	0.025		0.05	mg/Kg	04/23/2018	04/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/19/2018 12:00:00 AM
Project:	LB94816	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	NORTHLAWN-PRECHAR-AREA-1	SDG No.:	LB94816
Lab Sample ID:	J2482-07	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	-0.0057	U	1	0.025		0.05	mg/Kg	04/23/2018	04/23/2018	9012B

Report of Analysis

Client:		Date Collected:	4/19/2018 12:00:00 AM
Project:	LB94816	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	NORTHLAWN-PRECHAR-AREA-2	SDG No.:	LB94816
Lab Sample ID:	J2482-08	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	-0.0087	U	1	0.025		0.05	mg/Kg	04/23/2018	04/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/19/2018 12:00:00 AM
Project:	LB94816	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	NORTHLAWN-PRECHAR-AREA-3	SDG No.:	LB94816
Lab Sample ID:	J2482-09	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	-0.0016	U	1	0.025		0.05	mg/Kg	04/23/2018	04/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/19/2018 12:00:00 AM
Project:	LB94816	Date Received:	4/19/2018 12:00:00 AM
Client Sample ID:	MDP-WC-1	SDG No.:	LB94816
Lab Sample ID:	J2490-03	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	-0.0042	U	1	0.025		0.05	mg/Kg	04/23/2018	04/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94816	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	RS-RO-RT-27438	SDG No.:	LB94816
Lab Sample ID:	J2493-03	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	-0.002	U	1	0.025		0.05	mg/Kg	04/23/2018	04/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94816	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	RS-RO-1-7-A	SDG No.:	LB94816
Lab Sample ID:	J2495-02	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	-0.0028	U	1	0.025		0.05	mg/Kg	04/23/2018	04/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94816	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	RS-RO-1-7-B	SDG No.:	LB94816
Lab Sample ID:	J2495-04	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	-0.0064	U	1	0.025		0.05	mg/Kg	04/23/2018	04/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94816	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	RS-RO-1-3	SDG No.:	LB94816
Lab Sample ID:	J2496-03	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	-0.0068	U	1	0.025		0.05	mg/Kg	04/23/2018	04/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94816	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	VB16206-VB16122	SDG No.:	LB94816
Lab Sample ID:	J2498-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00015	U	1	0.0025		0.005	mg/L	04/23/2018	04/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94816	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	355-285-279	SDG No.:	LB94816
Lab Sample ID:	J2499-02	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	-0.0053	U	1	0.025		0.05	mg/Kg	04/23/2018	04/23/2018	9012B

Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94816	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	278	SDG No.:	LB94816
Lab Sample ID:	J2499-04	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	0.0016	U	1	0.025		0.05	mg/Kg	04/23/2018	04/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94816	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	RBR-400028-2171	SDG No.:	LB94816
Lab Sample ID:	J2500-02	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	-0.0058	U	1	0.025		0.05	mg/Kg	04/23/2018	04/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94816	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	FADW4807L	SDG No.:	LB94816
Lab Sample ID:	J2501-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00017	U	1	0.0025		0.005	mg/L	04/23/2018	04/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94816	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	DRUM-2-1-PPE	SDG No.:	LB94816
Lab Sample ID:	J2503-02	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	-0.0047	U	1	0.025		0.05	mg/Kg	04/23/2018	04/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94816	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	CONCRETE	SDG No.:	LB94816
Lab Sample ID:	J2503-04	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	-0.00029	U	1	0.025		0.05	mg/Kg	04/23/2018	04/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94816	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	RBR-47184RT	SDG No.:	LB94816
Lab Sample ID:	J2503-06	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	-0.0012	U	1	0.025		0.05	mg/Kg	04/23/2018	04/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94816	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	CHRT25773	SDG No.:	LB94816
Lab Sample ID:	J2503-08	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	-0.0032	U	1	0.025		0.05	mg/Kg	04/23/2018	04/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94816	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	CHRT25773	SDG No.:	LB94816
Lab Sample ID:	J2503-08	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB94816

SDG No.: LB94816

Contract: _____

Lab Code: CHEM

Case No.: LB94816

SAS No.: LB94816

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
ICV1	Reactive Cyanide	0.099	0.099	100		85 - 115		04/23/2018	13:46	lb94816



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94816

SDG No.: LB94816

Contract: _____ Lab Code: CHEM

Case No.: LB94816

SAS No.: LB94816

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	0.25	0.25	100		90 - 110		04/23/2018	13:46	lb94816
CCV2	Reactive Cyanide	0.24	0.25	96		90 - 110		04/23/2018	13:53	lb94816
CCV3	Reactive Cyanide	0.25	0.25	100		90 - 110		04/23/2018	14:24	lb94816
CCV4	Reactive Cyanide	0.25	0.25	100		90 - 110		04/23/2018	14:24	lb94816

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.0003	+/-0.005	U		0.005		04/23/2018	13:46	lb94816

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.0001	+/-0.005	U		0.005		04/23/2018	13:46	lb94816
CCB2	Reactive Cyanide	-0.00061	+/-0.005	U		0.005		04/23/2018	13:53	lb94816
CCB3	Reactive Cyanide	-0.0001	+/-0.005	U		0.005		04/23/2018	14:24	lb94816
CCB4	Reactive Cyanide	-0.00023	+/-0.005	U		0.005		04/23/2018	14:24	lb94816



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB94816

SDG No.:

LB94816

Contract:

Lab Code:

CHEM

Case No.:

LB94816

SAS No.:

LB94816

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: LB94816

SDG No.: LB94816

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
PB108489BL	Reactive Cyanide	SOLID		Batch Number:		PB108489		Prep Date:	04/23/2018	
		-0.0061	<0.05	U		0.05		04/23/2018	13:46	lb94816
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB108501BL	Reactive Cyanide	WATER		Batch Number:		PB108501		Prep Date:	04/23/2018	
		0.00016	<0.005	U		0.005		04/23/2018	14:01	lb94816

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94816 **Level:** LOW **SDG No.:** LB94816
Contract: **Lab Code:** CHEM **Case No.:** LB94816 **SAS No.:** LB94816
Matrix: Solid **Sample ID:** J2152-04 **Client ID:** BU-03-042018DUP
Percent Solids for Sample: 100 **Duplicate ID** J2152-04DUP **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	-0.0033	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94816 **Level:** LOW **SDG No.:** LB94816
Contract: _____ **Lab Code:** CHEM **Case No.:** LB94816 **SAS No.:** LB94816
Matrix: WATER **Sample ID:** J2498-02 **Client ID:** VB16206-VB16122DUP
Percent Solids for Sample: 0 **Duplicate ID** J2498-02DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/L	20	0.0025	U	-0	U			