

Daily Analysis Runlog For Sequence/QC Batch ID # LB85964

Review By		Review On				
SubDirectory LB85964		Test : Reactive Cyanide				
STD. NAME	STD REF.#					
ICAL Standard	WP53100,WP53101,WP53102,WP53103,WP53104,WP53105,WP53106,WP53107					
ICV Standard	WP53110					
CCV Standard	WP53109					
ICSA Standard						
CRI Standard						
LCS Standard						
Chk Standard	WP53108,WP51626,WP51276					

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	02/22/17 13:22		OK
2	5.0PPBCN	5.0PPBCN	CAL2	02/22/17 13:23		OK
3	10PPBCN	10PPBCN	CAL3	02/22/17 13:23		OK
4	50PPBCN	50PPBCN	CAL4	02/22/17 13:23		OK
5	100PPBCN	100PPBCN	CAL5	02/22/17 13:23		OK
6	250PPBCN	250PPBCN	CAL6	02/22/17 13:23		OK
7	500PPBCN	500PPBCN	CAL7	02/22/17 13:23		OK
8	ICV1	ICV1	ICV	02/22/17 15:09		OK
9	ICB1	ICB1	ICB	02/22/17 15:09		OK
10	CCV1	CCV1	CCV	02/22/17 15:09		OK
11	CCB1	CCB1	CCB	02/22/17 15:09		OK
12	PB97111BL	PB97111BL	MB	02/22/17 15:09		OK
13	I1929-02	GRIT-STOCKPILE	SAM	02/22/17 15:09		OK
14	I1929-02DUP	GRIT-STOCKPILEDU	DUP	02/22/17 15:09		OK
15	I1935-02	WC-B31-B34-001	SAM	02/22/17 15:09		OK
16	I1936-03	WC-B38-B39-001	SAM	02/22/17 15:09		OK
17	I1936-04	WC-B55-B63-001	SAM	02/22/17 15:09		OK
18	CCV2	CCV2	CCV	02/22/17 15:09		OK
19	CCB2	CCB2	CCB	02/22/17 15:11		OK



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Report of Analysis

Client:		Date Collected:	2/20/2017 12:00:00 AM
Project:	LB85964	Date Received:	2/21/2017 12:00:00 AM
Client Sample ID:	GRIT-STOCKPILE	SDG No.:	LB85964
Lab Sample ID:	I1929-02	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	-0.0049	U	1	0.05		0.05	mg/Kg	02/22/2017	02/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	2/21/2017 12:00:00 AM
Project:	LB85964	Date Received:	2/21/2017 12:00:00 AM
Client Sample ID:	WC-B31-B34-001	SDG No.:	LB85964
Lab Sample ID:	I1935-02	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	-0.0016	U	1	0.05		0.05	mg/Kg	02/22/2017	02/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	2/21/2017 12:00:00 AM
Project:	LB85964	Date Received:	2/21/2017 12:00:00 AM
Client Sample ID:	WC-B38-B39-001	SDG No.:	LB85964
Lab Sample ID:	I1936-03	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	-0.001	U	1	0.05		0.05	mg/Kg	02/22/2017	02/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	2/21/2017 12:00:00 AM
Project:	LB85964	Date Received:	2/21/2017 12:00:00 AM
Client Sample ID:	WC-B55-B63-001	SDG No.:	LB85964
Lab Sample ID:	I1936-04	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	-0.0036	U	1	0.05		0.05	mg/Kg	02/22/2017	02/22/2017	9012B



Report of Analysis

Client:		Date Collected:	2/21/2017 12:00:00 AM
Project:	LB85964	Date Received:	2/21/2017 12:00:00 AM
Client Sample ID:	WC-B55-B63-001	SDG No.:	LB85964
Lab Sample ID:	I1936-04	Matrix:	Solid
Level (low/med):	low	% Solid:	100

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



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB85964

SDG No.: LB85964

Contract: **Lab Code:** CHEM

Case No.: LB85964 **SAS No.:** LB85964

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
ICV1	Reactive Cyanide	0.093	0.099	93.9	0	85 - 115		02/22/2017	15:09	LB85964



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB85964

SDG No.: LB85964

Contract: _____ Lab Code: CHEM

Case No.: LB85964

SAS No.: LB85964

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	0.24	0.25	96	0	90 - 110		02/22/2017	15:09	LB85964
CCV2	Reactive Cyanide	0.24	0.25	96	0	90 - 110		02/22/2017	15:09	LB85964



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85964

SDG No.: LB85964

Contract:

Lab Code: CHEM

Case No.: LB85964

SAS No.: LB85964

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.00019	+/-0.005	U		0.005		02/22/2017	15:09	LB85964



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85964

SDG No.: LB85964

Contract:

Lab Code: CHEM

Case No.: LB85964

SAS No.: LB85964

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.00014	+/-0.005	U		0.005		02/22/2017	15:09	LB85964
CCB2	Reactive Cyanide	-0.0000995	+/-0.005	U		0.005		02/22/2017	15:11	LB85964



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85964

SDG No.: LB85964

Contract: Lab Code: CHEM

Case No.: LB85964

SAS No.: LB85964

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

Client: LB85964

SDG No.: LB85964

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
PB97111BL		SOLID		Batch Number:		PB97111		Prep Date:	02/22/2017	
	Reactive Cyanide	-0.00025	<0.05	U		0.05		02/22/2017	15:09	LB85964

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB85964 **Level:** LOW **SDG No.:** LB85964
Contract: **Lab Code:** CHEM **Case No.:** LB85964 **SAS No.:** LB85964
Matrix: Solid **Sample ID:** I1929-02 **Client ID:** GRIT-STOCKPILEDUP
Percent Solids for Sample: 100 **Duplicate ID** I1929-02DUP **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.05	U	0.0019	U			