

Daily Analysis Runlog For Sequence/QC Batch ID # LB93580

Review By		apatel		Review On		2/28/2018 3:57:10 PM	
SubDirectory		LB93580		Test :		Cyanide	
STD. NAME		STD REF.#					
ICAL Standard		WP62332,WP62333,WP62334,WP62335,WP62336,WP62337,WP62338					
ICV Standard		W1542					
CCV Standard		WP62239					
ICSA Standard		N/A					
CRI Standard		N/A					
LCS Standard		WP58910					
Chk Standard		WP62341,WP59958,WP60878					
Sr#	SampleID	ClientID	QcType	Date	Comment	Status	
1	0.0PPBCN	0.0PPBCN	CAL1	02/28/18 10:00		OK	
2	5.0PPBCN	5.0PPBCN	CAL2	02/28/18 10:00		OK	
3	10PPBCN	10PPBCN	CAL3	02/28/18 10:00		OK	
4	50PPBCN	50PPBCN	CAL4	02/28/18 10:00		OK	
5	100PPBCN	100PPBCN	CAL5	02/28/18 10:00		OK	
6	250PPBCN	250PPBCN	CAL6	02/28/18 10:00		OK	
7	500PPBCN	500PPBCN	CAL7	02/28/18 10:00		OK	
8	ICV1	ICV1	ICV	02/28/18 12:38		OK	
9	ICB1	ICB1	ICB	02/28/18 12:38		OK	
10	CCV1	CCV1	CCV	02/28/18 12:38		OK	
11	CCB1	CCB1	CCB	02/28/18 12:38		OK	
12	PB106914BL	PB106914BL	MB	02/28/18 12:38		OK	
13	PB106914BS	PB106914BS	LCS	02/28/18 12:38		OK	
14	J1399-09	OR-03-022718-A	SAM	02/28/18 12:38		OK	
15	J1399-09DUP	OR-03-022718-ADUP	DUP	02/28/18 12:38		OK	
16	J1399-09MS	OR-03-022718-AMS	MS	02/28/18 12:38		OK	
17	J1399-09MSD	OR-03-022718-AMSD	MSD	02/28/18 12:38		OK	
18	J1399-11	OR-03-022718-B	SAM	02/28/18 12:38		OK	
19	J1403-07	SU-03-022718	SAM	02/28/18 12:45		OK	
20	J1708-01	RO-222-226	SAM	02/28/18 12:45		OK	
21	CCV2	CCV2	CCV	02/28/18 12:45		OK	

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STD. NAME		STD REF.#					
ICAL Standard		WP62332,WP62333,WP62334,WP62335,WP62336,WP62337,WP62338					
ICV Standard		W1542					
CCV Standard		WP62239					
ICSA Standard		N/A					
CRI Standard		N/A					
LCS Standard		WP58910					
Chk Standard		WP62341,WP59958,WP60878					
22	CCB2	CCB2	CCB	02/28/18 12:45		OK	
23	J1710-01	RO-242	SAM	02/28/18 12:45		OK	
24	J1710-04	RO-201	SAM	02/28/18 12:45		OK	
25	J1712-01	2014-TRANS-LAURE	SAM	02/28/18 12:45		OK	
26	CCV3	CCV3	CCV	02/28/18 12:45		OK	
27	CCB3	CCB3	CCB	02/28/18 12:45		OK	
28	J1709-01	DRUM-1-2	SAM	02/28/18 13:04	Not Use	Not Ok	
29	J1710-07	RO-215	SAM	02/28/18 13:04	Not Use	Not Ok	
30	CCV4	CCV4	CCV	02/28/18 13:04	Not Use	Not Ok	
31	CCB4	CCB4	CCB	02/28/18 13:04	Not Use	Not Ok	



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93580	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	OR-03-022718-A	SDG No.:	LB93580
Lab Sample ID:	J1399-09	Matrix:	Solid
Level (low/med):	low	% Solid:	89.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.032	U	1	0.036		0.27	mg/Kg	02/28/2018	02/28/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93580	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	OR-03-022718-B	SDG No.:	LB93580
Lab Sample ID:	J1399-11	Matrix:	Solid
Level (low/med):	low	% Solid:	86.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.04	J	1	0.037		0.28	mg/Kg	02/28/2018	02/28/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93580	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	SU-03-022718	SDG No.:	LB93580
Lab Sample ID:	J1403-07	Matrix:	Solid
Level (low/med):	low	% Solid:	83.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.038		0.29	mg/Kg	02/28/2018	02/28/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93580	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	RO-222-226	SDG No.:	LB93580
Lab Sample ID:	J1708-01	Matrix:	Solid
Level (low/med):	low	% Solid:	77

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.036	U	1	0.041		0.31	mg/Kg	02/28/2018	02/28/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93580	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	DRUM-1-2	SDG No.:	LB93580
Lab Sample ID:	J1709-01	Matrix:	Solid
Level (low/med):	low	% Solid:	77

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.31		1	0.041		0.31	mg/Kg	02/28/2018	02/28/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93580	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	RO-242	SDG No.:	LB93580
Lab Sample ID:	J1710-01	Matrix:	Solid
Level (low/med):	low	% Solid:	85.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.097	J	1	0.038		0.29	mg/Kg	02/28/2018	02/28/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93580	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	RO-201	SDG No.:	LB93580
Lab Sample ID:	J1710-04	Matrix:	Solid
Level (low/med):	low	% Solid:	86.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.31		1	0.038		0.29	mg/Kg	02/28/2018	02/28/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93580	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	RO-215	SDG No.:	LB93580
Lab Sample ID:	J1710-07	Matrix:	Solid
Level (low/med):	low	% Solid:	83.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.45		1	0.039		0.3	mg/Kg	02/28/2018	02/28/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93580	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	2014-TRANS-LAUREL	SDG No.:	LB93580
Lab Sample ID:	J1712-01	Matrix:	Solid
Level (low/med):	low	% Solid:	87.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.017	U	1	0.036		0.27	mg/Kg	02/28/2018	02/28/2018	9012B



Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93580	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	2014-TRANS-LAUREL	SDG No.:	LB93580
Lab Sample ID:	J1712-01	Matrix:	Solid
Level (low/med):	low	% Solid:	87.2

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



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93580

SDG No.: LB93580

Contract: _____ Lab Code: CHEM

Case No.: LB93580

SAS No.: LB93580

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	Cyanide	0.26	0.25	104		90 - 110		02/28/2018	12:38	LB93580
CCV2	Cyanide	0.26	0.25	104		90 - 110		02/28/2018	12:45	LB93580
CCV3	Cyanide	0.26	0.25	104		90 - 110		02/28/2018	12:45	LB93580
CCV4	Cyanide	0.28	0.25	112	*	90 - 110		02/28/2018	13:04	LB93580



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93580

SDG No.: LB93580

Contract:

Lab Code: CHEM

Case No.: LB93580

SAS No.: LB93580

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0	+/-0.005	U		0.005		02/28/2018	12:38	LB93580

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.0001	+/-0.005	U		0.005		02/28/2018	12:38	LB93580
CCB2	Cyanide	0.00054	+/-0.005	U		0.005		02/28/2018	12:45	LB93580
CCB3	Cyanide	0.00062	+/-0.005	U		0.005		02/28/2018	12:45	LB93580
CCB4	Cyanide	-0.00029	+/-0.005	U		0.005		02/28/2018	13:04	LB93580



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93580

SDG No.: LB93580

Contract: Lab Code: CHEM

Case No.: LB93580

SAS No.: LB93580

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

Client: LB93580

SDG No.: LB93580

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
PB106914BL	Cyanide	SOLID -0.0055	<0.25	Batch Number: U		PB106914 0.25		Prep Date: 02/28/2018	02/28/2018 12:38	LB93580



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- 5a -
MATRIX SPIKE SUMMARY

client: LB93580 level: low sdg no.: LB93580
contract: lab code: CHEM case no.: LB93580 sas no.: LB93580
matrix: Solid sample id: J1399-09 client id: OR-03-022718-AMS
Percent Solids for Sample: 89.7 Spiked ID: J1399-09MS Percent Solids for Spike Sample: 89.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.036	U	2.2	77.3		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93580 level: low sdg no.: LB93580
contract: lab code: CHEM case no.: LB93580 sas no.: LB93580
matrix: Solid sample id: J1399-09 client id: OR-03-022718-AMSD
Percent Solids for Sample: 89.7 Spiked ID: J1399-09MSD Percent Solids for Spike Sample: 89.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.036	U	2.2	77.3		

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DUPLICATE SAMPLE SUMMARY

Client: LB93580 **Level:** LOW **SDG No.:** LB93580
Contract: **Lab Code:** CHEM **Case No.:** LB93580 **SAS No.:** LB93580
Matrix: Solid **Sample ID:** J1399-09 **Client ID:** OR-03-022718-ADUP
Percent Solids for Sample: 89.7 **Duplicate ID** J1399-09DUP **Percent Solids for Spike Sample:** 89.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.036	U	0.026	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB93580 **Level:** LOW **SDG No.:** LB93580
Contract: **Lab Code:** CHEM **Case No.:** LB93580 **SAS No.:** LB93580
Matrix: Solid **Sample ID:** J1399-09MS **Client ID:** OR-03-022718-AMSD
Percent Solids for Sample: 89.7 **Duplicate ID** J1399-09MSD **Percent Solids for Spike Sample:** 89.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.7		1.7		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93580 SDG No.: LB93580
Contract: Lab Code: CHEM Case No.: LB93580 SAS No.: LB93580

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106914BS Cyanide	mg/Kg	4.8	4.7		97.9	85 - 115	
