

Daily Analysis Runlog For Sequence/QC Batch ID # LB87567

Review By		Review On				
SubDirectory		LB87567		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP55034,WP55035,WP55036,WP55037,WP55038,WP55039,WP55040,WP55041				
ICV Standard		WP55044				
CCV Standard		WP55043				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55042,WP51626,WP51276				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/19/17 10:50		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/19/17 10:50		OK
3	10PPBCN	10PPBCN	CAL3	05/19/17 10:50		OK
4	50PPBCN	50PPBCN	CAL4	05/19/17 10:50		OK
5	100PPBCN	100PPBCN	CAL5	05/19/17 10:50		OK
6	250PPBCN	250PPBCN	CAL6	05/19/17 10:50		OK
7	500PPBCN	500PPBCN	CAL7	05/19/17 10:50		OK
8	ICV1	ICV1	ICV	05/19/17 12:19		OK
9	ICB1	ICB1	ICB	05/19/17 12:19		OK
10	CCV1	CCV1	CCV	05/19/17 12:19		OK
11	CCB1	CCB1	CCB	05/19/17 12:19		OK
12	PB99101BL	PB99101BL	MB	05/19/17 12:19		OK
13	I3125-05	WC-AOC-17-B5-CON	SAM	05/19/17 12:19		OK
14	I3125-05DUP	WC-AOC-17-B5-CON	DUP	05/19/17 12:20		OK
15	I3214-18	EP2-WC8(0-8)	SAM	05/19/17 12:20		OK
16	I3214-19	EP2-WC7(0-6.5)	SAM	05/19/17 12:20		OK
17	I3214-20	EP2-WC6(0-6.5)	SAM	05/19/17 12:20		OK
18	I3214-21	EP2-WC5(0-10)	SAM	05/19/17 12:20		OK
19	I3214-22	EP2-WC5(10-24)	SAM	05/19/17 12:27		OK
20	I3214-23	EP2-WC1(6-24)	SAM	05/19/17 12:27		OK
21	I3227-03	RO-11939	SAM	05/19/17 12:27		OK

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ICV Standard		WP55044				
CCV Standard		WP55043				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55042,WP51626,WP51276				
22	CCV2	CCV2	CCV	05/19/17 12:27		OK
23	CCB2	CCB2	CCB	05/19/17 12:27		OK
24	I3228-03	MH-9	SAM	05/19/17 12:27		OK
25	I3235-03	TW1-TW2	SAM	05/19/17 12:27		OK
26	PB99102BL	PB99102BL	MB	05/19/17 12:27		OK
27	I3235-07	TW1-TW2	SAM	05/19/17 12:27		OK
28	I3235-07DUP	TW1-TW2DUP	DUP	05/19/17 12:27		OK
29	CCV3	CCV3	CCV	05/19/17 12:27		OK
30	CCB3	CCB3	CCB	05/19/17 12:30		OK



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Report of Analysis

Client:		Date Collected:	5/18/2017 12:00:00 AM
Project:	LB87567	Date Received:	5/12/2017 12:00:00 AM
Client Sample ID:	WC-AOC-17-B5-COMP	SDG No.:	LB87567
Lab Sample ID:	I3125-05	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	-0.0081	U	1	0.025		0.05	mg/Kg	05/19/2017	05/19/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/16/2017 12:00:00 AM
Project:	LB87567	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	EP2-WC8(0-8)	SDG No.:	LB87567
Lab Sample ID:	I3214-18	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	05/19/2017	05/19/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/16/2017 12:00:00 AM
Project:	LB87567	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	EP2-WC7(0-6.5)	SDG No.:	LB87567
Lab Sample ID:	I3214-19	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	05/19/2017	05/19/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/16/2017 12:00:00 AM
Project:	LB87567	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	EP2-WC6(0-6.5)	SDG No.:	LB87567
Lab Sample ID:	I3214-20	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	-0.018	U	1	0.025		0.049	mg/Kg	05/19/2017	05/19/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/16/2017 12:00:00 AM
Project:	LB87567	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	EP2-WC5(0-10)	SDG No.:	LB87567
Lab Sample ID:	I3214-21	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	-0.0077	U	1	0.025		0.05	mg/Kg	05/19/2017	05/19/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/16/2017 12:00:00 AM
Project:	LB87567	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	EP2-WC5(10-24)	SDG No.:	LB87567
Lab Sample ID:	I3214-22	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	-0.0062	U	1	0.025		0.05	mg/Kg	05/19/2017	05/19/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/16/2017 12:00:00 AM
Project:	LB87567	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	EP2-WC1(6-24)	SDG No.:	LB87567
Lab Sample ID:	I3214-23	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	-0.0071	U	1	0.025		0.049	mg/Kg	05/19/2017	05/19/2017	9012B

Report of Analysis

Client:		Date Collected:	5/18/2017 12:00:00 AM
Project:	LB87567	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	RO-11939	SDG No.:	LB87567
Lab Sample ID:	I3227-03	Matrix:	Solid
Level (low/med):	low	% Solid:	71

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	05/19/2017	05/19/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/18/2017 12:00:00 AM
Project:	LB87567	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	MH-9	SDG No.:	LB87567
Lab Sample ID:	I3228-03	Matrix:	Solid
Level (low/med):	low	% Solid:	97.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0061	U	1	0.025		0.05	mg/Kg	05/19/2017	05/19/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/18/2017 12:00:00 AM
Project:	LB87567	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	TW1-TW2	SDG No.:	LB87567
Lab Sample ID:	I3235-03	Matrix:	Solid
Level (low/med):	low	% Solid:	86.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0059	U	1	0.025		0.05	mg/Kg	05/19/2017	05/19/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/18/2017 12:00:00 AM
Project:	LB87567	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	TW1-TW2	SDG No.:	LB87567
Lab Sample ID:	I3235-07	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	-0.00072	U	1	0.0025		0.005	mg/L	05/19/2017	05/19/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/18/2017 12:00:00 AM
Project:	LB87567	Date Received:	5/18/2017 12:00:00 AM
Client Sample ID:	TW1-TW2	SDG No.:	LB87567
Lab Sample ID:	I3235-07	Matrix:	WATER
Level (low/med):	low	% Solid:	0

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

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Reactive Cyanide	0.092	0.099	92.9	0	85 - 115		05/19/2017	12:19	LB87567



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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87567

SDG No.: LB87567

Contract: _____ Lab Code: CHEM

Case No.: LB87567

SAS No.: LB87567

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	0.23	0.25	92	0	90 - 110		05/19/2017	12:19	LB87567
CCV2	Reactive Cyanide	0.24	0.25	96	0	90 - 110		05/19/2017	12:27	LB87567
CCV3	Reactive Cyanide	0.25	0.25	100	0	90 - 110		05/19/2017	12:27	LB87567



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87567

SDG No.: LB87567

Contract:

Lab Code: CHEM

Case No.: LB87567

SAS No.: LB87567

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.00029	+/-0.005	U		0.005		05/19/2017	12:19	LB87567

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		05/19/2017	12:19	LB87567
CCB2	Reactive Cyanide	-0.00023	+/-0.005	U		0.005		05/19/2017	12:27	LB87567
CCB3	Reactive Cyanide	0.0001	+/-0.005	U		0.005		05/19/2017	12:30	LB87567



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87567

SDG No.: LB87567

Contract: Lab Code: CHEM

Case No.: LB87567

SAS No.: LB87567

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

Client: LB87567

SDG No.: LB87567

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
PB99101BL	Reactive Cyanide	SOLID		Batch Number:		PB99101		Prep Date:	05/19/2017	
		-0.0016	<0.05	U		0.05		05/19/2017	12:19	LB87567
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB99102BL	Reactive Cyanide	WATER		Batch Number:		PB99102		Prep Date:	05/19/2017	
		-0.00017	<0.005	U		0.005		05/19/2017	12:27	LB87567

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DUPLICATE SAMPLE SUMMARY

Client: LB87567 **Level:** LOW **SDG No.:** LB87567
Contract: **Lab Code:** CHEM **Case No.:** LB87567 **SAS No.:** LB87567
Matrix: Solid **Sample ID:** I3125-05 **Client ID:** WC-AOC-17-B5-COMPDUP
Percent Solids for Sample: 100 **Duplicate ID** I3125-05DUP **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	-0.0067	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB87567 **Level:** LOW **SDG No.:** LB87567
Contract: **Lab Code:** CHEM **Case No.:** LB87567 **SAS No.:** LB87567
Matrix: WATER **Sample ID:** I3235-07 **Client ID:** TW1-TW2DUP
Percent Solids for Sample: 0 **Duplicate ID** I3235-07DUP **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	-0.00039	U			