

Daily Analysis Runlog For Sequence/QC Batch ID # LB93446

Review By

Review On

SubDirectory

LB93446

Test :

Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP62190,WP62191,WP62192,WP62193,WP62194,WP62195,WP62196
ICV Standard	WP62198
CCV Standard	WP62197
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP62199,WP59958,WP60878

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	02/22/18 11:41		OK
2	5.0PPBCN	5.0PPBCN	CAL2	02/22/18 11:41		OK
3	10PPBCN	10PPBCN	CAL3	02/22/18 11:41		OK
4	50PPBCN	50PPBCN	CAL4	02/22/18 11:41		OK
5	100PPBCN	100PPBCN	CAL5	02/22/18 11:41		OK
6	250PPBCN	250PPBCN	CAL6	02/22/18 11:41		OK
7	500PPBCN	500PPBCN	CAL7	02/22/18 11:41		OK
8	ICV1	ICV1	ICV	02/22/18 12:09		OK
9	ICB1	ICB1	ICB	02/22/18 12:09		OK
10	CCV1	CCV1	CCV	02/22/18 12:09		OK
11	CCB1	CCB1	CCB	02/22/18 12:09		OK
12	J1396-02	HD-01-022118	SAM	02/22/18 12:09		OK
13	J1396-02DUP	HD-01-022118DUP	DUP	02/22/18 12:09		OK
14	J1634-05	RO-72-11931	SAM	02/22/18 12:09		OK
15	J1635-04	TP-1-6FT	SAM	02/22/18 12:09		OK
16	PB106747BL	PB106747BL	MB	02/22/18 12:09		OK
17	J1634-06	FRAC-TANK-257928	SAM	02/22/18 12:14		OK
18	J1634-06DUP	FRAC-TANK-257928	DUP	02/22/18 12:14		OK
19	J1634-07	FRAC-TANK-257928	SAM	02/22/18 12:14		OK
20	CCV2	CCV2	CCV	02/22/18 12:14		OK
21	CCB2	CCB2	CCB	02/22/18 12:14		OK



Instrument ID : KONELAB

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

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SubDirectory		Test : Reactive Cyanide				
LB93446						
STD. NAME		STD REF.#				
ICAL Standard		WP62190,WP62191,WP62192,WP62193,WP62194,WP62195,WP62196				
ICV Standard		WP62198				
CCV Standard		WP62197				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP62199,WP59958,WP60878				
22	PB106746BL	PB106746BL	MB	02/22/18 12:33		OK
23	J1635-02	TP-1-3FT	SAM	02/22/18 12:33		OK
24	CCV3	CCV3	CCV	02/22/18 12:33		OK
25	CCB3	CCB3	CCB	02/22/18 12:33		OK



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Report of Analysis

Client:		Date Collected:	2/21/2018 12:00:00 AM
Project:	LB93446	Date Received:	2/21/2018 12:00:00 AM
Client Sample ID:	HD-01-022118	SDG No.:	LB93446
Lab Sample ID:	J1396-02	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	-0.0038	U	1	0.025		0.05	mg/Kg	02/22/2018	02/22/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/21/2018 12:00:00 AM
Project:	LB93446	Date Received:	2/21/2018 12:00:00 AM
Client Sample ID:	RO-72-11931	SDG No.:	LB93446
Lab Sample ID:	J1634-05	Matrix:	Solid
Level (low/med):	low	% Solid:	84.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00093	U	1	0.025		0.05	mg/Kg	02/22/2018	02/22/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/21/2018 12:00:00 AM
Project:	LB93446	Date Received:	2/21/2018 12:00:00 AM
Client Sample ID:	FRAC-TANK-257928	SDG No.:	LB93446
Lab Sample ID:	J1634-06	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	-0.0001	U	1	0.0025		0.005	mg/L	02/22/2018	02/22/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/21/2018 12:00:00 AM
Project:	LB93446	Date Received:	2/21/2018 12:00:00 AM
Client Sample ID:	FRAC-TANK-257928	SDG No.:	LB93446
Lab Sample ID:	J1634-07	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	-0.00022	U	1	0.0025		0.005	mg/L	02/22/2018	02/22/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/21/2018 12:00:00 AM
Project:	LB93446	Date Received:	2/21/2018 12:00:00 AM
Client Sample ID:	TP-1-3FT	SDG No.:	LB93446
Lab Sample ID:	J1635-02	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	0.096		1	0.025		0.05	mg/Kg	02/22/2018	02/22/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/21/2018 12:00:00 AM
Project:	LB93446	Date Received:	2/21/2018 12:00:00 AM
Client Sample ID:	TP-1-6FT	SDG No.:	LB93446
Lab Sample ID:	J1635-04	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	U	1	0.025		0.05	mg/Kg	02/22/2018	02/22/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/21/2018 12:00:00 AM
Project:	LB93446	Date Received:	2/21/2018 12:00:00 AM
Client Sample ID:	TP-1-6FT	SDG No.:	LB93446
Lab Sample ID:	J1635-04	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



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93446

SDG No.: LB93446

Contract: _____ Lab Code: CHEM

Case No.: LB93446

SAS No.: LB93446

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	0.096	0.099	97		85 - 115		02/22/2018	12:09	LB93446



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93446

SDG No.: LB93446

Contract: _____ Lab Code: CHEM

Case No.: LB93446

SAS No.: LB93446

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		02/22/2018	12:09	LB93446
CCV2	Reactive Cyanide	0.25	0.25	100		90 - 110		02/22/2018	12:14	LB93446
CCV3	Reactive Cyanide	0.25	0.25	100		90 - 110		02/22/2018	12:33	LB93446



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93446

SDG No.: LB93446

Contract:

Lab Code: CHEM

Case No.: LB93446

SAS No.: LB93446

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00013	+/-0.005	U		0.005		02/22/2018	12:09	LB93446



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93446

SDG No.: LB93446

Contract:

Lab Code: CHEM

Case No.: LB93446

SAS No.: LB93446

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		02/22/2018	12:09	LB93446
CCB2	Reactive Cyanide	0.0001	+/-0.005	U		0.005		02/22/2018	12:14	LB93446
CCB3	Reactive Cyanide	-0.00043	+/-0.005	U		0.005		02/22/2018	12:33	LB93446



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93446

SDG No.: LB93446

Contract: Lab Code: CHEM

Case No.: LB93446

SAS No.: LB93446

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: LB93446

SDG No.: LB93446

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
PB106746BL	Reactive Cyanide	SOLID		Batch Number:		PB106746		Prep Date:	02/22/2018	
		-0.0051	<0.05	U		0.05		02/22/2018	12:33	LB93446
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB106747BL	Reactive Cyanide	WATER		Batch Number:		PB106747		Prep Date:	02/22/2018	
		-0.00015	<0.005	U		0.005		02/22/2018	12:09	LB93446

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB93446 **Level:** LOW **SDG No.:** LB93446
Contract: **Lab Code:** CHEM **Case No.:** LB93446 **SAS No.:** LB93446
Matrix: Solid **Sample ID:** J1396-02 **Client ID:** HD-01-022118DUP
Percent Solids for Sample: 100 **Duplicate ID** J1396-02DUP **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	-0.0021	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB93446 **Level:** LOW **SDG No.:** LB93446
Contract: **Lab Code:** CHEM **Case No.:** LB93446 **SAS No.:** LB93446
Matrix: WATER **Sample ID:** J1634-06 **Client ID:** FRAC-TANK-257928DUP
Percent Solids for Sample: 0 **Duplicate ID** J1634-06DUP **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	-0.00022	U			