

Daily Analysis Runlog For Sequence/QC Batch ID # LB93657

Review By

Review On

SubDirectory

LB93657

Test :

Reactive Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP62413,WP62414,WP62415,WP62416,WP62417,WP62418,WP62419				
ICV Standard		WP62421				
CCV Standard		WP62420				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP62422,WP59958,WP60878				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/02/18 11:38		OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/02/18 11:38		OK
3	10PPBCN	10PPBCN	CAL3	03/02/18 11:38		OK
4	50PPBCN	50PPBCN	CAL4	03/02/18 11:38		OK
5	100PPBCN	100PPBCN	CAL5	03/02/18 11:38		OK
6	250PPBCN	250PPBCN	CAL6	03/02/18 11:38		OK
7	500PPBCN	500PPBCN	CAL7	03/02/18 11:38		OK
8	ICV1	ICV1	ICV	03/02/18 14:34		OK
9	ICB1	ICB1	ICB	03/02/18 14:34		OK
10	CCV1	CCV1	CCV	03/02/18 14:34		OK
11	CCB1	CCB1	CCB	03/02/18 14:34		OK
12	PB107016BL	PB107016BL	MB	03/02/18 14:34		OK
13	J1751-02	JC-02-030118-A	SAM	03/02/18 14:34		OK
14	J1751-02DUP	JC-02-030118-ADUP	DUP	03/02/18 14:34		OK
15	J1751-04	JC-02-030118-B	SAM	03/02/18 14:34		OK
16	J1751-06	JC-02-030118-C	SAM	03/02/18 14:34		OK
17	J1751-08	JC-02-030118-D	SAM	03/02/18 14:34		OK
18	J1751-10	JC-02-030118-E	SAM	03/02/18 14:34		OK
19	J1751-12	JC-02-030118-F	SAM	03/02/18 14:42		OK
20	J1751-14	JC-02-030118-G	SAM	03/02/18 14:42		OK
21	CCV2	CCV2	CCV	03/02/18 14:42		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB93657

Review By			Review On			
SubDirectory		LB93657		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP62413,WP62414,WP62415,WP62416,WP62417,WP62418,WP62419				
ICV Standard		WP62421				
CCV Standard		WP62420				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP62422,WP59958,WP60878				
22	CCB2	CCB2	CCB	03/02/18 14:42		OK
23	J1751-16	JC-02-030118-H	SAM	03/02/18 14:42		OK
24	J1751-18	JC-02-030118-I	SAM	03/02/18 14:42		OK
25	J1756-02	OR-01-030118-A	SAM	03/02/18 14:42		OK
26	J1756-04	OR-01-030118-B	SAM	03/02/18 14:42		OK
27	J1766-03	DRUM-1-2	SAM	03/02/18 14:42		OK
28	J1767-04	RO-72-11998	SAM	03/02/18 14:42		OK
29	J1777-01	COOK-RD-OILY-DEE	SAM	03/02/18 14:42		OK
30	J1778-01	TP-3	SAM	03/02/18 14:49		OK
31	J1778-02	TP-4	SAM	03/02/18 14:49		OK
32	J1778-03	TP-5	SAM	03/02/18 14:49		OK
33	CCV3	CCV3	CCV	03/02/18 14:49		OK
34	CCB3	CCB3	CCB	03/02/18 14:49		OK
35	J1779-03	DRUM-5	SAM	03/02/18 14:49		OK
36	J1780-01	DRUM-1-3	SAM	03/02/18 14:49		OK
37	J1779-09	DRUM-1-4	SAM	03/02/18 14:49		OK
38	J1779-09DUP	DRUM-1-4DUP	DUP	03/02/18 14:49		OK
39	PB107017BL	PB107017BL	MB	03/02/18 15:07		OK
40	CCV4	CCV4	CCV	03/02/18 15:07		OK
41	CCB4	CCB4	CCB	03/02/18 15:07		OK



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Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93657	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	JC-02-030118-A	SDG No.:	LB93657
Lab Sample ID:	J1751-02	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	-0.001	U	1	0.025		0.05	mg/Kg	03/02/2018	03/02/2018	9012B

Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93657	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	JC-02-030118-B	SDG No.:	LB93657
Lab Sample ID:	J1751-04	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	0.025		0.049	mg/Kg	03/02/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93657	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	JC-02-030118-C	SDG No.:	LB93657
Lab Sample ID:	J1751-06	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	-0.0015	U	1	0.025		0.05	mg/Kg	03/02/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93657	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	JC-02-030118-D	SDG No.:	LB93657
Lab Sample ID:	J1751-08	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	-0.00098	U	1	0.025		0.05	mg/Kg	03/02/2018	03/02/2018	9012B

Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93657	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	JC-02-030118-E	SDG No.:	LB93657
Lab Sample ID:	J1751-10	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	-0.0011	U	1	0.025		0.049	mg/Kg	03/02/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93657	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	JC-02-030118-F	SDG No.:	LB93657
Lab Sample ID:	J1751-12	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	-0.0017	U	1	0.025		0.05	mg/Kg	03/02/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93657	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	JC-02-030118-G	SDG No.:	LB93657
Lab Sample ID:	J1751-14	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	0.00089	U	1	0.025		0.05	mg/Kg	03/02/2018	03/02/2018	9012B

Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93657	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	JC-02-030118-H	SDG No.:	LB93657
Lab Sample ID:	J1751-16	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	-0.0011	U	1	0.025		0.049	mg/Kg	03/02/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93657	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	JC-02-030118-I	SDG No.:	LB93657
Lab Sample ID:	J1751-18	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	-0.0038	U	1	0.025		0.05	mg/Kg	03/02/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93657	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	OR-01-030118-A	SDG No.:	LB93657
Lab Sample ID:	J1756-02	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	-0.00025	U	1	0.025		0.049	mg/Kg	03/02/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93657	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	OR-01-030118-B	SDG No.:	LB93657
Lab Sample ID:	J1756-04	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	-0.003	U	1	0.025		0.05	mg/Kg	03/02/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93657	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	DRUM-1-2	SDG No.:	LB93657
Lab Sample ID:	J1766-03	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	-0.0023	U	1	0.025		0.05	mg/Kg	03/02/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93657	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	RO-72-11998	SDG No.:	LB93657
Lab Sample ID:	J1767-04	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	-0.0026	U	1	0.025		0.049	mg/Kg	03/02/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93657	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	COOK-RD-OILY-DEBRIS	SDG No.:	LB93657
Lab Sample ID:	J1777-01	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	-0.0029	U	1	0.025		0.05	mg/Kg	03/02/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/28/2018 12:00:00 AM
Project:	LB93657	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	TP-3	SDG No.:	LB93657
Lab Sample ID:	J1778-01	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	-0.0052	U	1	0.025		0.05	mg/Kg	03/02/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/28/2018 12:00:00 AM
Project:	LB93657	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	TP-4	SDG No.:	LB93657
Lab Sample ID:	J1778-02	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	0.00062	U	1	0.025		0.05	mg/Kg	03/02/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/28/2018 12:00:00 AM
Project:	LB93657	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	TP-5	SDG No.:	LB93657
Lab Sample ID:	J1778-03	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	0.0012	U	1	0.025		0.05	mg/Kg	03/02/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93657	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	DRUM-5	SDG No.:	LB93657
Lab Sample ID:	J1779-03	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	-0.0006	U	1	0.025		0.05	mg/Kg	03/02/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93657	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	DRUM-1-4	SDG No.:	LB93657
Lab Sample ID:	J1779-09	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	03/02/2018	03/02/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93657	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	DRUM-1-3	SDG No.:	LB93657
Lab Sample ID:	J1780-01	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	-0.0031	U	1	0.025		0.05	mg/Kg	03/02/2018	03/02/2018	9012B



Report of Analysis

Client:		Date Collected:	3/1/2018 12:00:00 AM
Project:	LB93657	Date Received:	3/1/2018 12:00:00 AM
Client Sample ID:	DRUM-1-3	SDG No.:	LB93657
Lab Sample ID:	J1780-01	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: LB93657

SDG No.: LB93657

Contract: _____ Lab Code: CHEM

Case No.: LB93657

SAS No.: LB93657

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	0.098	0.099	99		85 - 115		03/02/2018	14:34	LB93657



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93657

SDG No.: LB93657

Contract: _____ Lab Code: CHEM

Case No.: LB93657

SAS No.: LB93657

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		03/02/2018	14:34	LB93657
CCV2	Reactive Cyanide	0.25	0.25	100		90 - 110		03/02/2018	14:42	LB93657
CCV3	Reactive Cyanide	0.25	0.25	100		90 - 110		03/02/2018	14:49	LB93657
CCV4	Reactive Cyanide	0.27	0.25	108		90 - 110		03/02/2018	15:07	LB93657



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93657

SDG No.: LB93657

Contract:

Lab Code: CHEM

Case No.: LB93657

SAS No.: LB93657

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00022	+/-0.005	U		0.005		03/02/2018	14:34	LB93657



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93657

SDG No.: LB93657

Contract:

Lab Code: CHEM

Case No.: LB93657

SAS No.: LB93657

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		03/02/2018	14:34	LB93657
CCB2	Reactive Cyanide	-0	+/-0.005	U		0.005		03/02/2018	14:42	LB93657
CCB3	Reactive Cyanide	0	+/-0.005	U		0.005		03/02/2018	14:49	LB93657
CCB4	Reactive Cyanide	0.0001	+/-0.005	U		0.005		03/02/2018	15:07	LB93657



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93657

SDG No.: LB93657

Contract: Lab Code: CHEM

Case No.: LB93657

SAS No.: LB93657

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: LB93657

SDG No.: LB93657

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
PB107016BL	Reactive Cyanide	SOLID		Batch Number:		PB107016		Prep Date:	03/02/2018	
		-0.0021	<0.05	U		0.05		03/02/2018	14:34	LB93657
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB107017BL	Reactive Cyanide	WATER		Batch Number:		PB107017		Prep Date:	03/02/2018	
		-0	<0.005	U		0.005		03/02/2018	15:07	LB93657

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB93657 **Level:** LOW **SDG No.:** LB93657
Contract: **Lab Code:** CHEM **Case No.:** LB93657 **SAS No.:** LB93657
Matrix: Solid **Sample ID:** J1751-02 **Client ID:** JC-02-030118-ADUP
Percent Solids for Sample: 100 **Duplicate ID** J1751-02DUP **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	-0.002	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB93657 **Level:** LOW **SDG No.:** LB93657
Contract: **Lab Code:** CHEM **Case No.:** LB93657 **SAS No.:** LB93657
Matrix: WATER **Sample ID:** J1779-09 **Client ID:** DRUM-1-4DUP
Percent Solids for Sample: 0 **Duplicate ID** J1779-09DUP **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	-0.00013	U			