

Daily Analysis Runlog For Sequence/QC Batch ID # LB95361

Review By		Review On				
SubDirectory		LB95361		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64476,WP64477,WP64478,WP64479,WP64480,WP64481,WP64482				
ICV Standard		WP64484				
CCV Standard		WP64482				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP64485,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/15/18 08:11		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/15/18 08:11		OK
3	10PPBCN	10PPBCN	CAL3	05/15/18 08:11		OK
4	50PPBCN	50PPBCN	CAL4	05/15/18 08:11		OK
5	100PPBCN	100PPBCN	CAL5	05/15/18 08:11		OK
6	250PPBCN	250PPBCN	CAL6	05/15/18 08:11		OK
7	500PPBCN	500PPBCN	CAL7	05/15/18 08:11		OK
8	ICV1	ICV1	ICV	05/15/18 10:38		OK
9	ICB1	ICB1	ICB	05/15/18 10:38		OK
10	CCV1	CCV1	CCV	05/15/18 10:38		OK
11	CCB1	CCB1	CCB	05/15/18 10:38		OK
12	PB109264BL	PB109264BL	MB	05/15/18 10:38		OK
13	J2899-03	TP-7A	SAM	05/15/18 10:38		OK
14	J2899-03DUP	TP-7ADUP	DUP	05/15/18 10:38		OK
15	J2899-07	TP-8A	SAM	05/15/18 10:38		OK
16	J2899-10	TP-8B	SAM	05/15/18 10:38		OK
17	J2901-09	251-COMP1-SL	SAM	05/15/18 10:38		OK
18	J2901-10	251-COMP2-SL	SAM	05/15/18 10:38		OK
19	J2901-11	260-COMP1-SL	SAM	05/15/18 10:45		OK
20	J2901-12	260-COMP2-SL	SAM	05/15/18 10:45		OK
21	J2902-05	295-COMP1-SL	SAM	05/15/18 10:45		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB95361

Review By		Review On				
SubDirectory		LB95361		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64476,WP64477,WP64478,WP64479,WP64480,WP64481,WP64482				
ICV Standard		WP64484				
CCV Standard		WP64482				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP64485,WP59958,WP60878				
22	CCV2	CCV2	CCV	05/15/18 10:45		OK
23	CCB2	CCB2	CCB	05/15/18 10:45		OK
24	J2902-06	228-COMP1-SL	SAM	05/15/18 10:45		OK
25	PB109263BL	PB109263BL	MB	05/15/18 10:46		OK
26	J2877-02	MS-WATER	SAM	05/15/18 10:46		OK
27	J2877-02DUP	MS-WATERDUP	DUP	05/15/18 10:46		OK
28	J2883-04	DRUM-1-5	SAM	05/15/18 10:46		OK
29	PB109285BL	PB109285BL	MB	05/15/18 11:08		OK
30	J1759-02	15TH-ST-SP-A	SAM	05/15/18 11:08		OK
31	J1759-02DUP	15TH-ST-SP-ADUP	DUP	05/15/18 11:08		OK
32	J2267-02	KG-GRAVEL	SAM	05/15/18 11:08		OK
33	CCV3	CCV3	CCV	05/15/18 11:08		OK
34	CCB3	CCB3	CCB	05/15/18 11:08		OK

Report of Analysis

Client:		Date Collected:	5/14/2018 12:00:00 AM
Project:	LB95361	Date Received:	5/14/2018 12:00:00 AM
Client Sample ID:	15TH-ST-SP-A	SDG No.:	LB95361
Lab Sample ID:	J1759-02	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.
	Reactive Cyanide	-0.0089	U	1	0.025		0.05	mg/Kg	05/15/2018	05/15/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/14/2018 12:00:00 AM
Project:	LB95361	Date Received:	5/14/2018 12:00:00 AM
Client Sample ID:	KG-GRAVEL	SDG No.:	LB95361
Lab Sample ID:	J2267-02	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	-0.0088	U	1	0.025		0.05	mg/Kg	05/15/2018	05/15/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95361	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	MS-WATER	SDG No.:	LB95361
Lab Sample ID:	J2877-02	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	-0.00037	U	1	0.0025		0.005	mg/L	05/14/2018	05/15/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95361	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	DRUM-1-5	SDG No.:	LB95361
Lab Sample ID:	J2883-04	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	-0.00026	U	1	0.0025		0.005	mg/L	05/14/2018	05/15/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95361	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	TP-7A	SDG No.:	LB95361
Lab Sample ID:	J2899-03	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	-0.0031	U	1	0.025		0.05	mg/Kg	05/14/2018	05/15/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95361	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	TP-8A	SDG No.:	LB95361
Lab Sample ID:	J2899-07	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	0.00059	U	1	0.025		0.05	mg/Kg	05/14/2018	05/15/2018	9012B

Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95361	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	TP-8B	SDG No.:	LB95361
Lab Sample ID:	J2899-10	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	0.003	U	1	0.025		0.05	mg/Kg	05/14/2018	05/15/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95361	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	251-COMP1-SL	SDG No.:	LB95361
Lab Sample ID:	J2901-09	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	0.0034	U	1	0.025		0.05	mg/Kg	05/14/2018	05/15/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95361	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	251-COMP2-SL	SDG No.:	LB95361
Lab Sample ID:	J2901-10	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	-0.0031	U	1	0.025		0.05	mg/Kg	05/14/2018	05/15/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95361	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	260-COMP1-SL	SDG No.:	LB95361
Lab Sample ID:	J2901-11	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		0.05	mg/Kg	05/14/2018	05/15/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95361	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	260-COMP2-SL	SDG No.:	LB95361
Lab Sample ID:	J2901-12	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	0.00088	U	1	0.025		0.05	mg/Kg	05/14/2018	05/15/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95361	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	295-COMP1-SL	SDG No.:	LB95361
Lab Sample ID:	J2902-05	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	-0.0044	U	1	0.025		0.05	mg/Kg	05/14/2018	05/15/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95361	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	228-COMP1-SL	SDG No.:	LB95361
Lab Sample ID:	J2902-06	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	-0.0029	U	1	0.025		0.05	mg/Kg	05/14/2018	05/15/2018	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95361	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	228-COMP1-SL	SDG No.:	LB95361
Lab Sample ID:	J2902-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

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

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: LB95361

SDG No.: LB95361

Contract: _____ Lab Code: CHEM

Case No.: LB95361

SAS No.: LB95361

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		05/15/2018	10:38	lb95361



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95361

SDG No.: LB95361

Contract: _____ Lab Code: CHEM

Case No.: LB95361

SAS No.: LB95361

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		05/15/2018	10:38	lb95361
CCV2	Reactive Cyanide	0.24	0.25	96		90 - 110		05/15/2018	10:45	lb95361
CCV3	Reactive Cyanide	0.25	0.25	100		90 - 110		05/15/2018	11:08	lb95361



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95361 **SDG No.:** LB95361
Contract: **Lab Code:** CHEM **Case No.:** LB95361 **SAS No.:** LB95361

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.0001	+/-0.005	U		0.005		05/15/2018	10:38	lb95361

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.0002	+/-0.005	U		0.005		05/15/2018	10:38	lb95361
CCB2	Reactive Cyanide	-0.00054	+/-0.005	U		0.005		05/15/2018	10:45	lb95361
CCB3	Reactive Cyanide	-0.00024	+/-0.005	U		0.005		05/15/2018	11:08	lb95361



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95361

SDG No.: LB95361

Contract: Lab Code: CHEM

Case No.: LB95361

SAS No.: LB95361

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



GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB95361

SDG No.: LB95361

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB109263BL	Reactive Cyanide	WATER		Batch Number:		PB109263		Prep Date:	05/14/2018	
		-0.0006	<0.005	U		0.005		05/15/2018	10:46	lb95361
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB109264BL	Reactive Cyanide	SOLID		Batch Number:		PB109264		Prep Date:	05/14/2018	
		-0.0017	<0.05	U		0.05		05/15/2018	10:38	lb95361
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB109285BL	Reactive Cyanide	SOLID		Batch Number:		PB109285		Prep Date:	05/15/2018	
		-0.0062	<0.05	U		0.05		05/15/2018	11:08	lb95361

GENCHEM**- 6 -****DUPLICATE SAMPLE SUMMARY**

Client: LB95361 **Level:** LOW **SDG No.:** LB95361
Contract: **Lab Code:** CHEM **Case No.:** LB95361 **SAS No.:** LB95361
Matrix: Solid **Sample ID:** J1759-02 **Client ID:** 15TH-ST-SP-ADUP
Percent Solids for Sample: 86.4 **Duplicate ID** J1759-02DUP **Percent Solids for Spike Sample:** 86.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	-0.0069	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95361 **Level:** LOW **SDG No.:** LB95361
Contract: _____ **Lab Code:** CHEM **Case No.:** LB95361 **SAS No.:** LB95361
Matrix: WATER **Sample ID:** J2877-02 **Client ID:** MS-WATERDUP
Percent Solids for Sample: 0 **Duplicate ID** J2877-02DUP **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	-0.00016	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95361 **Level:** LOW **SDG No.:** LB95361
Contract: **Lab Code:** CHEM **Case No.:** LB95361 **SAS No.:** LB95361
Matrix: Solid **Sample ID:** J2899-03 **Client ID:** TP-7ADUP
Percent Solids for Sample: 100 **Duplicate ID** J2899-03DUP **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	0.00051	U			