

Daily Analysis Runlog For Sequence/QC Batch ID # LB89314

Review By		Review On				
SubDirectory		LB89314		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57020,WP57021,WP57022,WP57023,WP57024,WP57025,WP57026,WP57027				
ICV Standard		WP57030				
CCV Standard		WP57029				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57028,WP55836,WP55355				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	ICV1	ICV1	ICV	08/07/17 15:17		OK
2	ICB1	ICB1	ICB	08/07/17 15:17		OK
3	CCV1	CCV1	CCV	08/07/17 15:17		OK
4	CCB1	CCB1	CCB	08/07/17 15:17		OK
5	PB101282BL	PB101282BL	MB	08/07/17 15:17		OK
6	I4610-03	PL-02-080317-A	SAM	08/07/17 15:17		OK
7	I4610-03DUP	PL-02-080317-ADUP	DUP	08/07/17 15:17		OK
8	I4610-06	PL-02-080317-B	SAM	08/07/17 15:25		OK
9	I4610-09	PL-02-080317-C	SAM	08/07/17 15:25		OK
10	I4610-12	PL-02-080317-D	SAM	08/07/17 15:25		OK
11	I4610-15	PL-02-080317-E	SAM	08/07/17 15:25		OK
12	I4611-03	EO-01-080317-A	SAM	08/07/17 15:25		OK
13	I4611-06	EO-01-080317-B	SAM	08/07/17 15:25		OK
14	I4611-09	EO-01-080317-C	SAM	08/07/17 15:25		OK
15	CCV2	CCV2	CCV	08/07/17 15:25		OK
16	CCB2	CCB2	CCB	08/07/17 15:25		OK
17	I4613-03	TR-05-080317	SAM	08/07/17 15:25		OK
18	PB101315BL	PB101315BL	MB	08/07/17 15:25		OK
19	I4625-03	CLINTON-AVE-COM	SAM	08/07/17 15:32		OK
20	I4625-03DUP	CLINTON-AVE-COM	DUP	08/07/17 15:32		OK
21	I4625-06	CLINTON-AVE-COM	SAM	08/07/17 15:32		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB89314

Review By		Review On				
SubDirectory		LB89314		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57020,WP57021,WP57022,WP57023,WP57024,WP57025,WP57026,WP57027				
ICV Standard		WP57030				
CCV Standard		WP57029				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57028,WP55836,WP55355				
22	I4636-03	SU-03-080417	SAM	08/07/17 15:32		OK
23	I4638-11	SP-COMP	SAM	08/07/17 15:32		OK
24	I4639-03	SA-06-080317-A	SAM	08/07/17 15:32		OK
25	I4639-06	SA-06-080317-B	SAM	08/07/17 15:32		OK
26	I4642-03	BU-03-080417	SAM	08/07/17 15:32		OK
27	CCV3	CCV3	CCV	08/07/17 15:32		OK
28	CCB3	CCB3	CCB	08/07/17 15:32		OK



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Report of Analysis

Client:		Date Collected:	8/3/2017 12:00:00 AM
Project:	LB89314	Date Received:	8/3/2017 12:00:00 AM
Client Sample ID:	PL-02-080317-A	SDG No.:	LB89314
Lab Sample ID:	I4610-03	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	0.016	U	1	0.025		0.05	mg/Kg	08/04/2017	08/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/3/2017 12:00:00 AM
Project:	LB89314	Date Received:	8/3/2017 12:00:00 AM
Client Sample ID:	PL-02-080317-B	SDG No.:	LB89314
Lab Sample ID:	I4610-06	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	-0.0023	U	1	0.025		0.05	mg/Kg	08/04/2017	08/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/3/2017 12:00:00 AM
Project:	LB89314	Date Received:	8/3/2017 12:00:00 AM
Client Sample ID:	PL-02-080317-C	SDG No.:	LB89314
Lab Sample ID:	I4610-09	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	-0.0012	U	1	0.025		0.05	mg/Kg	08/04/2017	08/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/3/2017 12:00:00 AM
Project:	LB89314	Date Received:	8/3/2017 12:00:00 AM
Client Sample ID:	PL-02-080317-D	SDG No.:	LB89314
Lab Sample ID:	I4610-12	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	-0.00042	U	1	0.025		0.05	mg/Kg	08/04/2017	08/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/3/2017 12:00:00 AM
Project:	LB89314	Date Received:	8/3/2017 12:00:00 AM
Client Sample ID:	PL-02-080317-E	SDG No.:	LB89314
Lab Sample ID:	I4610-15	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	08/04/2017	08/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/3/2017 12:00:00 AM
Project:	LB89314	Date Received:	8/3/2017 12:00:00 AM
Client Sample ID:	EO-01-080317-A	SDG No.:	LB89314
Lab Sample ID:	I4611-03	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	U	1	0.025		0.05	mg/Kg	08/04/2017	08/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/3/2017 12:00:00 AM
Project:	LB89314	Date Received:	8/3/2017 12:00:00 AM
Client Sample ID:	EO-01-080317-B	SDG No.:	LB89314
Lab Sample ID:	I4611-06	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	0.00015	U	1	0.025		0.05	mg/Kg	08/04/2017	08/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/3/2017 12:00:00 AM
Project:	LB89314	Date Received:	8/3/2017 12:00:00 AM
Client Sample ID:	EO-01-080317-C	SDG No.:	LB89314
Lab Sample ID:	I4611-09	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	0.00028	U	1	0.025		0.05	mg/Kg	08/04/2017	08/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/3/2017 12:00:00 AM
Project:	LB89314	Date Received:	8/3/2017 12:00:00 AM
Client Sample ID:	TR-05-080317	SDG No.:	LB89314
Lab Sample ID:	I4613-03	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	-0.00099	U	1	0.025		0.05	mg/Kg	08/04/2017	08/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/3/2017 12:00:00 AM
Project:	LB89314	Date Received:	8/3/2017 12:00:00 AM
Client Sample ID:	CLINTON-AVE-COMP-1	SDG No.:	LB89314
Lab Sample ID:	I4625-03	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	-0.00093	U	1	0.025		0.05	mg/Kg	08/07/2017	08/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/3/2017 12:00:00 AM
Project:	LB89314	Date Received:	8/3/2017 12:00:00 AM
Client Sample ID:	CLINTON-AVE-COMP-2	SDG No.:	LB89314
Lab Sample ID:	I4625-06	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	0.0001	U	1	0.025		0.05	mg/Kg	08/07/2017	08/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/4/2017 12:00:00 AM
Project:	LB89314	Date Received:	8/4/2017 12:00:00 AM
Client Sample ID:	SU-03-080417	SDG No.:	LB89314
Lab Sample ID:	I4636-03	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	0.00023	U	1	0.025		0.05	mg/Kg	08/07/2017	08/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/4/2017 12:00:00 AM
Project:	LB89314	Date Received:	8/4/2017 12:00:00 AM
Client Sample ID:	SP-COMP	SDG No.:	LB89314
Lab Sample ID:	I4638-11	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	-0.0011	U	1	0.025		0.05	mg/Kg	08/07/2017	08/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/4/2017 12:00:00 AM
Project:	LB89314	Date Received:	8/4/2017 12:00:00 AM
Client Sample ID:	SA-06-080317-A	SDG No.:	LB89314
Lab Sample ID:	I4639-03	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	0.0013	U	1	0.025		0.05	mg/Kg	08/07/2017	08/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/4/2017 12:00:00 AM
Project:	LB89314	Date Received:	8/4/2017 12:00:00 AM
Client Sample ID:	SA-06-080317-B	SDG No.:	LB89314
Lab Sample ID:	I4639-06	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	0.0021	U	1	0.025		0.05	mg/Kg	08/07/2017	08/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/4/2017 12:00:00 AM
Project:	LB89314	Date Received:	8/4/2017 12:00:00 AM
Client Sample ID:	BU-03-080417	SDG No.:	LB89314
Lab Sample ID:	I4642-03	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	-0.0027	U	1	0.025		0.05	mg/Kg	08/07/2017	08/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/4/2017 12:00:00 AM
Project:	LB89314	Date Received:	8/4/2017 12:00:00 AM
Client Sample ID:	BU-03-080417	SDG No.:	LB89314
Lab Sample ID:	I4642-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB89314

SDG No.: LB89314

Contract: _____

Lab Code: CHEM

Case No.: LB89314

SAS No.: LB89314

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
ICV1	Reactive Cyanide	0.098	0.099	99	0	85 - 115		08/07/2017	15:17	LB89314

GENCHEM**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB89314**SDG No.:** LB89314**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB89314**SAS No.:** LB89314**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	0.25	0.25	100	0	90 - 110		08/07/2017	15:17	LB89314
CCV2	Reactive Cyanide	0.25	0.25	100	0	90 - 110		08/07/2017	15:25	LB89314
CCV3	Reactive Cyanide	0.25	0.25	100	0	90 - 110		08/07/2017	15:32	LB89314



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89314

SDG No.: LB89314

Contract:

Lab Code: CHEM

Case No.: LB89314

SAS No.: LB89314

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.00012	+/-0.005	U		0.005		08/07/2017	15:17	LB89314



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89314

SDG No.: LB89314

Contract:

Lab Code: CHEM

Case No.: LB89314

SAS No.: LB89314

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.0001	+/-0.005	U		0.005		08/07/2017	15:17	LB89314
CCB2	Reactive Cyanide	0.0001	+/-0.005	U		0.005		08/07/2017	15:25	LB89314
CCB3	Reactive Cyanide	0.00017	+/-0.005	U		0.005		08/07/2017	15:32	LB89314



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89314

SDG No.: LB89314

Contract: Lab Code: CHEM

Case No.: LB89314

SAS No.: LB89314

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: LB89314

SDG No.: LB89314

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
PB101282BL	Reactive Cyanide	SOLID		Batch Number:		PB101282		Prep Date:	08/04/2017	
		-0.00025	<0.05	U		0.05		08/07/2017	15:17	LB89314
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB101315BL	Reactive Cyanide	SOLID		Batch Number:		PB101315		Prep Date:	08/07/2017	
		-0.0001	<0.05	U		0.05		08/07/2017	15:25	LB89314

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89314 **Level:** LOW **SDG No.:** LB89314
Contract: **Lab Code:** CHEM **Case No.:** LB89314 **SAS No.:** LB89314
Matrix: Solid **Sample ID:** I4610-03 **Client ID:** PL-02-080317-ADUP
Percent Solids for Sample: 100 **Duplicate ID** I4610-03DUP **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	-0.018	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89314 **Level:** LOW **SDG No.:** LB89314
Contract: **Lab Code:** CHEM **Case No.:** LB89314 **SAS No.:** LB89314
Matrix: Solid **Sample ID:** I4625-03 **Client ID:** CLINTON-AVE-COMP-1DUP
Percent Solids for Sample: 100 **Duplicate ID** I4625-03DUP **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	-0.0012	U			