

Daily Analysis Runlog For Sequence/QC Batch ID # LB87329

Review By		Review On				
SubDirectory		LB87329		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP54762,WP54763,WP54764,WP54765,WP54766,WP54767,WP54768,WP54769,WP54770				
ICV Standard		WP54772				
CCV Standard		WP54771				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54770,WP51626,WP51276				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/09/17 09:51		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/09/17 09:51		OK
3	10PPBCN	10PPBCN	CAL3	05/09/17 09:51		OK
4	50PPBCN	50PPBCN	CAL4	05/09/17 09:51		OK
5	100PPBCN	100PPBCN	CAL5	05/09/17 09:51		OK
6	250PPBCN	250PPBCN	CAL6	05/09/17 09:51		OK
7	500PPBCN	500PPBCN	CAL7	05/09/17 09:51		OK
8	ICV1	ICV1	ICV	05/09/17 10:29		OK
9	ICB1	ICB1	ICB	05/09/17 10:29		OK
10	CCV1	CCV1	CCV	05/09/17 10:29		OK
11	CCB1	CCB1	CCB	05/09/17 10:29		OK
12	I2995-01	WC-AOC17-001	SAM	05/09/17 10:29		OK
13	I2995-02	WC-AOC17-002	SAM	05/09/17 10:29		OK
14	I2995-03	WC-AOC17-003	SAM	05/09/17 10:29		OK
15	I2995-04	WC-AOC17-004	SAM	05/09/17 10:29		OK
16	I2995-05	WC-AOC17-005	SAM	05/09/17 10:36		OK
17	I2995-06	WC-HS-006	SAM	05/09/17 10:37		OK
18	I3022-02	WC-COMP-15	SAM	05/09/17 10:37		OK
19	I3027-11	TP-1-2-3-COMP	SAM	05/09/17 10:37		OK
20	CCV2	CCV2	CCV	05/09/17 10:37		OK
21	CCB2	CCB2	CCB	05/09/17 10:37		OK

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SubDirectory		LB87329		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
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ICV Standard		WP54772				
CCV Standard		WP54771				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54770,WP51626,WP51276				
22	I3027-13	TP-4-5-6-COMP	SAM	05/09/17 10:37		OK
23	I3027-15	TP-7-8-9-COMP	SAM	05/09/17 10:37		OK
24	I3031-07	TP-2COMP	SAM	05/09/17 10:37		OK
25	I3031-09	TP-1-3COMP	SAM	05/09/17 10:37		OK
26	I3034-08	DRUM-1-6-COMP	SAM	05/09/17 10:37		OK
27	PB98778BL	PB98778BL	MB	05/09/17 10:42		OK
28	I3033-05	OILY-WATER-COMP	SAM	05/09/17 10:42		OK
29	I3033-05DUP	OILY-WATER-COMP	DUP	05/09/17 10:42		OK
30	I3035-07	DRUM-COMP-(1-5)	SAM	05/09/17 10:42		OK
31	I3035-10	TANK-265563	SAM	05/09/17 10:42		OK
32	CCV3	CCV3	CCV	05/09/17 10:42		OK
33	CCB3	CCB3	CCB	05/09/17 10:42		OK
34	PB98777BL	PB98777BL	MB	05/09/17 11:00		OK
35	I2995-01DUP	WC-AOC17-001DUP	DUP	05/09/17 11:00		OK
36	CCV4	CCV4	CCV	05/09/17 11:00		OK
37	CCB4	CCB4	CCB	05/09/17 11:00		OK



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Report of Analysis

Client:		Date Collected:	5/3/2017 12:00:00 AM
Project:	LB87329	Date Received:	5/4/2017 12:00:00 AM
Client Sample ID:	WC-AOC17-001	SDG No.:	LB87329
Lab Sample ID:	I2995-01	Matrix:	Solid
Level (low/med):	low	% Solid:	87.1

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	05/08/2017	05/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2017 12:00:00 AM
Project:	LB87329	Date Received:	5/4/2017 12:00:00 AM
Client Sample ID:	WC-AOC17-002	SDG No.:	LB87329
Lab Sample ID:	I2995-02	Matrix:	Solid
Level (low/med):	low	% Solid:	87.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.006	U	1	0.025		0.05	mg/Kg	05/08/2017	05/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2017 12:00:00 AM
Project:	LB87329	Date Received:	5/4/2017 12:00:00 AM
Client Sample ID:	WC-AOC17-003	SDG No.:	LB87329
Lab Sample ID:	I2995-03	Matrix:	Solid
Level (low/med):	low	% Solid:	88.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.02	U	1	0.025		0.05	mg/Kg	05/08/2017	05/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2017 12:00:00 AM
Project:	LB87329	Date Received:	5/4/2017 12:00:00 AM
Client Sample ID:	WC-AOC17-004	SDG No.:	LB87329
Lab Sample ID:	I2995-04	Matrix:	Solid
Level (low/med):	low	% Solid:	88.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.022	U	1	0.025		0.049	mg/Kg	05/08/2017	05/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2017 12:00:00 AM
Project:	LB87329	Date Received:	5/4/2017 12:00:00 AM
Client Sample ID:	WC-AOC17-005	SDG No.:	LB87329
Lab Sample ID:	I2995-05	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	-0.021	U	1	0.025		0.049	mg/Kg	05/08/2017	05/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2017 12:00:00 AM
Project:	LB87329	Date Received:	5/4/2017 12:00:00 AM
Client Sample ID:	WC-HS-006	SDG No.:	LB87329
Lab Sample ID:	I2995-06	Matrix:	Solid
Level (low/med):	low	% Solid:	88.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.02	U	1	0.025		0.049	mg/Kg	05/08/2017	05/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/4/2017 12:00:00 AM
Project:	LB87329	Date Received:	5/5/2017 12:00:00 AM
Client Sample ID:	WC-COMP-15	SDG No.:	LB87329
Lab Sample ID:	I3022-02	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	-0.021	U	1	0.025		0.05	mg/Kg	05/08/2017	05/09/2017	9012B

Report of Analysis

Client:		Date Collected:	5/5/2017 12:00:00 AM
Project:	LB87329	Date Received:	5/5/2017 12:00:00 AM
Client Sample ID:	TP-1-2-3-COMP	SDG No.:	LB87329
Lab Sample ID:	I3027-11	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	-0.019	U	1	0.025		0.049	mg/Kg	05/08/2017	05/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/5/2017 12:00:00 AM
Project:	LB87329	Date Received:	5/5/2017 12:00:00 AM
Client Sample ID:	TP-4-5-6-COMP	SDG No.:	LB87329
Lab Sample ID:	I3027-13	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	-0.022	U	1	0.025		0.049	mg/Kg	05/08/2017	05/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/5/2017 12:00:00 AM
Project:	LB87329	Date Received:	5/5/2017 12:00:00 AM
Client Sample ID:	TP-7-8-9-COMP	SDG No.:	LB87329
Lab Sample ID:	I3027-15	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	-0.02	U	1	0.025		0.049	mg/Kg	05/08/2017	05/09/2017	9012B

Report of Analysis

Client:		Date Collected:	5/5/2017 12:00:00 AM
Project:	LB87329	Date Received:	5/5/2017 12:00:00 AM
Client Sample ID:	TP-2COMP	SDG No.:	LB87329
Lab Sample ID:	I3031-07	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	-0.016	U	1	0.025		0.05	mg/Kg	05/08/2017	05/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/5/2017 12:00:00 AM
Project:	LB87329	Date Received:	5/5/2017 12:00:00 AM
Client Sample ID:	TP-1-3COMP	SDG No.:	LB87329
Lab Sample ID:	I3031-09	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	-0.017	U	1	0.025		0.05	mg/Kg	05/08/2017	05/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/5/2017 12:00:00 AM
Project:	LB87329	Date Received:	5/5/2017 12:00:00 AM
Client Sample ID:	OILY-WATER-COMP	SDG No.:	LB87329
Lab Sample ID:	I3033-05	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	-0.0028	U	1	0.0025		0.005	mg/L	05/08/2017	05/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/5/2017 12:00:00 AM
Project:	LB87329	Date Received:	5/5/2017 12:00:00 AM
Client Sample ID:	DRUM-1-6-COMP	SDG No.:	LB87329
Lab Sample ID:	I3034-08	Matrix:	Solid
Level (low/med):	low	% Solid:	79.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.017	U	1	0.025		0.049	mg/Kg	05/08/2017	05/09/2017	9012B

Report of Analysis

Client:		Date Collected:	5/5/2017 12:00:00 AM
Project:	LB87329	Date Received:	5/5/2017 12:00:00 AM
Client Sample ID:	DRUM-COMP-(1-5)	SDG No.:	LB87329
Lab Sample ID:	I3035-07	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	-0.0017	U	1	0.0025		0.005	mg/L	05/08/2017	05/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/5/2017 12:00:00 AM
Project:	LB87329	Date Received:	5/5/2017 12:00:00 AM
Client Sample ID:	TANK-265563	SDG No.:	LB87329
Lab Sample ID:	I3035-10	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	-0.0021	U	1	0.0025		0.005	mg/L	05/08/2017	05/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/5/2017 12:00:00 AM
Project:	LB87329	Date Received:	5/5/2017 12:00:00 AM
Client Sample ID:	TANK-265563	SDG No.:	LB87329
Lab Sample ID:	I3035-10	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



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: **LB87329**

SDG No.: LB87329Contract: _____ Lab Code: CHEM

Case No.: LB87329

SAS No.: LB87329

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Reactive Cyanide	0.096	0.099	97	0	85 - 115		05/09/2017	10:29	LB87329



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87329

SDG No.: LB87329

Contract: _____ Lab Code: CHEM

Case No.: LB87329

SAS No.: LB87329

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	0.24	0.25	96	0	90 - 110		05/09/2017	10:29	LB87329
CCV2	Reactive Cyanide	0.25	0.25	100	0	90 - 110		05/09/2017	10:37	LB87329
CCV3	Reactive Cyanide	0.25	0.25	100	0	90 - 110		05/09/2017	10:42	LB87329
CCV4	Reactive Cyanide	0.26	0.25	104	0	90 - 110		05/09/2017	11:00	LB87329



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87329

SDG No.: LB87329

Contract:

Lab Code: CHEM

Case No.: LB87329

SAS No.: LB87329

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.0012	+/-0.005	U		0.005		05/09/2017	10:29	LB87329



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87329

SDG No.: LB87329

Contract:

Lab Code: CHEM

Case No.: LB87329

SAS No.: LB87329

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.002	+/-0.005	U		0.005		05/09/2017	10:29	LB87329
CCB2	Reactive Cyanide	-0.0016	+/-0.005	U		0.005		05/09/2017	10:37	LB87329
CCB3	Reactive Cyanide	-0.0011	+/-0.005	U		0.005		05/09/2017	10:42	LB87329
CCB4	Reactive Cyanide	-0	+/-0.005	U		0.005		05/09/2017	11:00	LB87329



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87329

SDG No.: LB87329

Contract: Lab Code: CHEM

Case No.: LB87329

SAS No.: LB87329

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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- 3b -
PREPARATION BLANK SUMMARY

Client: LB87329

SDG No.: LB87329

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
PB98777BL	Reactive Cyanide	SOLID		Batch Number:		PB98777		Prep Date:	05/08/2017	
		-0.018	<0.05	U		0.05		05/09/2017	11:00	LB87329
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB98778BL	Reactive Cyanide	WATER		Batch Number:		PB98778		Prep Date:	05/08/2017	
		-0.0017	<0.005	U		0.005		05/09/2017	10:42	LB87329

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB87329 **Level:** LOW **SDG No.:** LB87329
Contract: **Lab Code:** CHEM **Case No.:** LB87329 **SAS No.:** LB87329
Matrix: Solid **Sample ID:** I2995-01 **Client ID:** WC-AOC17-001DUP
Percent Solids for Sample: 87.1 **Duplicate ID** I2995-01DUP **Percent Solids for Spike Sample:** 87.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	-0.016	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB87329 **Level:** LOW **SDG No.:** LB87329
Contract: **Lab Code:** CHEM **Case No.:** LB87329 **SAS No.:** LB87329
Matrix: WATER **Sample ID:** I3033-05 **Client ID:** OILY-WATER-COMPDUP
Percent Solids for Sample: 0 **Duplicate ID** I3033-05DUP **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	-0.0022	U			