

Daily Analysis Runlog For Sequence/QC Batch ID # LB87342

Review By		Review On							
SubDirectory		LB87342		Test : Cyanide					
STD. NAME		STD REF.#							
ICAL Standard		WP54762,WP54763,WP54764,WP54765,WP54766,WP54767,WP54768,WP54769,WP54770							
ICV Standard		w1540							
CCV Standard		W54771							
ICSA Standard		N/A							
CRI Standard		N/A							
LCS Standard		WP54521							
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 14:11		OK			
9	ICB1	ICB1	ICB	05/09/17 14:11		OK			
10	CCV1	CCV1	CCV	05/09/17 14:11		OK			
11	CCB1	CCB1	CCB	05/09/17 14:11		OK			
12	PB98812BL	PB98812BL	MB	05/09/17 14:11		OK			
13	PB98812BS	PB98812BS	LCS	05/09/17 14:11		OK			
14	LOWPB98812	LOWPB98812	SAM	05/09/17 14:11		OK			
15	HIGHPB98812	HIGHPB98812	SAM	05/09/17 14:11		OK			
16	I3033-02	OILY-WATER-COMP	SAM	05/09/17 14:11		OK			
17	I3033-02DUP	OILY-WATER-COMP	DUP	05/09/17 14:11		OK			
18	I3033-02MS	OILY-WATER-COMP	MS	05/09/17 14:11		OK			
19	I3033-02MSD	OILY-WATER-COMP	MSD	05/09/17 14:18		OK			
20	I3035-01	DRUM-COMP-(1-5)	SAM	05/09/17 14:18	CN high	Dilution			
21	I3035-09	TANK-265563	SAM	05/09/17 14:18		OK			

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STD. NAME		STD REF.#				
ICAL Standard		WP54762,WP54763,WP54764,WP54765,WP54766,WP54767,WP54768,WP54769,WP54770				
ICV Standard		w1540				
CCV Standard		W54771				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP54770,WP51626,WP51276				
22	CCV2	CCV2	CCV	05/09/17 14:18		OK
23	CCB2	CCB2	CCB	05/09/17 14:18		OK
24	I3035-01DL	DRUM-COMP-(1-5)D	SAM	05/09/17 14:47	10X for Cn	Confirms
25	CCV3	CCV3	CCV	05/09/17 14:47		OK
26	CCB3	CCB3	CCB	05/09/17 14:47		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB87342	Date Received:	
Client Sample ID:	HIGHPB98812	SDG No.:	LB87342
Lab Sample ID:	HIGHPB98812	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.48		1	0.003		0.005	mg/L		05/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/5/2017 12:00:00 AM
Project:	LB87342	Date Received:	5/5/2017 12:00:00 AM
Client Sample ID:	OILY-WATER-COMP	SDG No.:	LB87342
Lab Sample ID:	I3033-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0093		1	0.003		0.005	mg/L	05/09/2017	05/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/5/2017 12:00:00 AM
Project:	LB87342	Date Received:	5/5/2017 12:00:00 AM
Client Sample ID:	DRUM-COMP-(1-5)	SDG No.:	LB87342
Lab Sample ID:	I3035-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	1	OR	1	0.003		0.005	mg/L	05/09/2017	05/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/5/2017 12:00:00 AM
Project:	LB87342	Date Received:	5/5/2017 12:00:00 AM
Client Sample ID:	DRUM-COMP-(1-5)DL	SDG No.:	LB87342
Lab Sample ID:	I3035-01DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	1.2	D	10	0.03		0.05	mg/L	05/09/2017	05/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/5/2017 12:00:00 AM
Project:	LB87342	Date Received:	5/5/2017 12:00:00 AM
Client Sample ID:	TANK-265563	SDG No.:	LB87342
Lab Sample ID:	I3035-09	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.003	J	1	0.003		0.005	mg/L	05/09/2017	05/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB87342	Date Received:	
Client Sample ID:	LOWPB98812	SDG No.:	LB87342
Lab Sample ID:	LOWPB98812	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0084		1	0.003		0.005	mg/L		05/09/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB87342	Date Received:	
Client Sample ID:	LOWPB98812	SDG No.:	LB87342
Lab Sample ID:	LOWPB98812	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

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Cyanide	0.093	0.099	93.9	0	85 - 115		05/09/2017	14:11	LB87342



GENCHEM

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87342

SDG No.: LB87342

Contract: _____ Lab Code: CHEM

Case No.: LB87342

SAS No.: LB87342

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	Cyanide	0.24	0.25	96	0	90 - 110		05/09/2017	14:11	LB87342
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		05/09/2017	14:18	LB87342
CCV3	Cyanide	0.26	0.25	104	0	90 - 110		05/09/2017	14:47	LB87342



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87342 **SDG No.:** LB87342
Contract: **Lab Code:** CHEM **Case No.:** LB87342 **SAS No.:** LB87342

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00051	+/-0.005	U		0.005		05/09/2017	14:11	LB87342



SD

Lab



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87342

SDG No.: LB87342

Contract: Lab Code: CHEM

Case No.: LB87342

SAS No.: LB87342

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

Client: LB87342

SDG No.: LB87342

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
PB98812BL	Cyanide	WATER -0.0011	<0.005	Batch Number: U		PB98812 0.005		Prep Date: 05/09/2017	05/09/2017 14:11	LB87342



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB87342 level: low sdg no.: LB87342
contract: lab code: CHEM case no.: LB87342 sas no.: LB87342
matrix: WATER sample id: I3033-02 client id: OILY-WATER-COMPMS
Percent Solids for Sample: 0 Spiked ID: I3033-02MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.049		0.0093		0.04	99		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB87342 level: low sdg no.: LB87342
contract: lab code: CHEM case no.: LB87342 sas no.: LB87342
matrix: WATER sample id: I3033-02 client id: OILY-WATER-COMPMSD
Percent Solids for Sample: 0 Spiked ID: I3033-02MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.048		0.0093		0.04	97		

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DUPLICATE SAMPLE SUMMARY

Client: LB87342 **Level:** LOW **SDG No.:** LB87342
Contract: **Lab Code:** CHEM **Case No.:** LB87342 **SAS No.:** LB87342
Matrix: WATER **Sample ID:** I3033-02 **Client ID:** OILY-WATER-COMPDUP
Percent Solids for Sample: 0 **Duplicate ID** I3033-02DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.0093		0.0091		2		

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DUPLICATE SAMPLE SUMMARY

Client: LB87342 **Level:** LOW **SDG No.:** LB87342
Contract: **Lab Code:** CHEM **Case No.:** LB87342 **SAS No.:** LB87342
Matrix: WATER **Sample ID:** I3033-02MS **Client ID:** OILY-WATER-COMPMSD
Percent Solids for Sample: 0 **Duplicate ID** I3033-02MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.049		0.048		2		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87342

SDG No.: LB87342

Contract:

Lab Code: CHEM

Case No.: LB87342

SAS No.: LB87342

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB98812BS Cyanide	mg/L	0.1	0.096		96	85 - 115	