

Daily Analysis Runlog For Sequence/QC Batch ID # LB90269

Review By		Review On				
SubDirectory		LB90269		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58170,WP58171,WP58172,WP58173,WP58174,WP58175,WP58168				
ICV Standard		WP58176				
CCV Standard		WP58178				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58177,WP55355,WP55836				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	09/22/17 09:13		OK
2	5.0PPBCN	5.0PPBCN	CAL2	09/22/17 09:13		OK
3	10PPBCN	10PPBCN	CAL3	09/22/17 09:13		OK
4	50PPBCN	50PPBCN	CAL4	09/22/17 09:13		OK
5	100PPBCN	100PPBCN	CAL5	09/22/17 09:13		OK
6	250PPBCN	250PPBCN	CAL6	09/22/17 09:13		OK
7	500PPBCN	500PPBCN	CAL7	09/22/17 09:13		OK
8	ICV1	ICV1	ICV	09/22/17 16:06		OK
9	ICB1	ICB1	ICB	09/22/17 16:06		OK
10	CCV1	CCV1	CCV	09/22/17 16:06		OK
11	CCB1	CCB1	CCB	09/22/17 16:06		OK
12	PB102544BL	PB102544BL	MB	09/22/17 16:06		OK
13	PB102544BS	PB102544BS	LCS	09/22/17 16:06		OK
14	MIDPB102544	MIDPB102544	SAM	09/22/17 16:12		OK
15	I5307-02	EFF-DAY1-COMP	SAM	09/22/17 16:12		OK
16	I5307-02DUP	EFF-DAY1-COMPDU	DUP	09/22/17 16:12		OK
17	I5307-02MS	EFF-DAY1-COMPMS	MS	09/22/17 16:12		OK
18	I5307-02MSD	EFF-DAY1-COMPMS	MSD	09/22/17 16:12		OK
19	CCV2	CCV2	CCV	09/22/17 16:12		OK
20	CCB2	CCB2	CCB	09/22/17 16:12		OK



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Report of Analysis

Client:		Date Collected:	9/21/2017 12:00:00 AM
Project:	LB90269	Date Received:	9/21/2017 12:00:00 AM
Client Sample ID:	EFF-DAY1-COMP	SDG No.:	LB90269
Lab Sample ID:	I5307-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	-0.0001	U	1	0.001		0.005	mg/L	09/22/2017	09/22/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	
Project:	LB90269	Date Received:	
Client Sample ID:	MIDPB102544	SDG No.:	LB90269
Lab Sample ID:	MIDPB102544	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.25		1	0.001		0.005	mg/L		09/22/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB90269	Date Received:	
Client Sample ID:	MIDPB102544	SDG No.:	LB90269
Lab Sample ID:	MIDPB102544	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

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90269

SDG No.: LB90269

Contract: _____ Lab Code: CHEM

Case No.: LB90269

SAS No.: LB90269

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	0.25	0.25	100	0	90 - 110		09/22/2017	16:06	LB90269
CCV2	Cyanide	0.26	0.25	104	0	90 - 110		09/22/2017	16:12	LB90269



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90269 **SDG No.:** LB90269
Contract: **Lab Code:** CHEM **Case No.:** LB90269 **SAS No.:** LB90269

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00086	+/-0.005	U		0.005		09/22/2017	16:06	LB90269



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90269

SDG No.: LB90269

Contract:

Lab Code: CHEM

Case No.: LB90269

SAS No.: LB90269

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.0011	+/-0.005	J		0.005		09/22/2017	16:06	LB90269
CCB2	Cyanide	0.00073	+/-0.005	U		0.005		09/22/2017	16:12	LB90269



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90269

SDG No.: LB90269

Contract: Lab Code: CHEM

Case No.: LB90269

SAS No.: LB90269

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: LB90269

SDG No.: LB90269

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
PB102544BL	Cyanide	WATER 0.00079	<0.005	Batch Number: U		PB102544 0.005		Prep Date: 09/22/2017	09/22/2017 16:06	LB90269



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MATRIX SPIKE SUMMARY

client: LB90269 level: low sdg no.: LB90269
contract: lab code: CHEM case no.: LB90269 sas no.: LB90269
matrix: WATER sample id: I5307-02 client id: EFF-DAY1-COMPMS
Percent Solids for Sample: 0 Spiked ID: I5307-02MS 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	0.028		0.001	U	0.04	70	*	



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MATRIX SPIKE DUPLICATE SUMMARY

client: LB90269 level: low sdg no.: LB90269
contract: lab code: CHEM case no.: LB90269 sas no.: LB90269
matrix: WATER sample id: I5307-02 client id: EFF-DAY1-COMPMSD
Percent Solids for Sample: 0 Spiked ID: I5307-02MSD 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	0.028		0.001	U	0.04	70	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB90269 **Level:** LOW **SDG No.:** LB90269
Contract: **Lab Code:** CHEM **Case No.:** LB90269 **SAS No.:** LB90269
Matrix: WATER **Sample ID:** I5307-02 **Client ID:** EFF-DAY1-COMPDUP
Percent Solids for Sample: 0 **Duplicate ID** I5307-02DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.001	U	-0.00012	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB90269 **Level:** LOW **SDG No.:** LB90269
Contract: **Lab Code:** CHEM **Case No.:** LB90269 **SAS No.:** LB90269
Matrix: WATER **Sample ID:** I5307-02MS **Client ID:** EFF-DAY1-COMPMSD
Percent Solids for Sample: 0 **Duplicate ID** I5307-02MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.028		0.028		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90269

SDG No.: LB90269

Contract:

Lab Code: CHEM

Case No.: LB90269

SAS No.: LB90269

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB102544BS Cyanide	mg/L	0.1	0.097		97	85 - 115	