

Daily Analysis Runlog For Sequence/QC Batch ID # LB93609

Review By

SubDirectory

Review On

Test : Cyanide

LB93609

STD. NAME		STD REF.#				
ICAL Standard		WP62361,WP62362,WP62363,WP62364,WP62365,WP62366,WP62367				
ICV Standard		W1542				
CCV Standard		WP62368				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62370,WP59958,WP60878				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/01/18 09:49		OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/01/18 09:49		OK
3	10PPBCN	10PPBCN	CAL3	03/01/18 09:49		OK
4	50PPBCN	50PPBCN	CAL4	03/01/18 09:49		OK
5	100PPBCN	100PPBCN	CAL5	03/01/18 09:49		OK
6	250PPBCN	250PPBCN	CAL6	03/01/18 09:49		OK
7	500PPBCN	500PPBCN	CAL7	03/01/18 09:49		OK
8	ICV1	ICV1	ICV	03/01/18 10:34		OK
9	ICB1	ICB1	ICB	03/01/18 10:34		OK
10	CCV1	CCV1	CCV	03/01/18 10:34		OK
11	CCB1	CCB1	CCB	03/01/18 10:34		OK
12	PB106888BL	PB106888BL	MB	03/01/18 10:34		OK
13	PB106888BS	PB106888BS	LCS	03/01/18 10:34		OK
14	MIDPB106888	MIDPB106888	SAM	03/01/18 10:34		OK
15	J1706-01	WASTE-WATER-TRE	SAM	03/01/18 10:34		OK
16	J1706-01DUP	WASTE-WATER-TRE	DUP	03/01/18 10:34		OK
17	J1641-02	EFFLUENT-DAY1-1-	SAM	03/01/18 10:38		OK
18	J1706-01MS	WASTE-WATER-TRE	MS	03/01/18 11:12		OK
19	J1706-01MSD	WASTE-WATER-TRE	MSD	03/01/18 11:13		OK
20	CCV2	CCV2	CCV	03/01/18 11:13		OK
21	CCB2	CCB2	CCB	03/01/18 11:13		OK



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93609	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	EFFLUENT-DAY1-1-4CN-COMP	SDG No.:	LB93609
Lab Sample ID:	J1641-02	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	-0.00065	U	1	0.001		0.005	mg/L	02/27/2018	03/01/2018	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93609	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	WASTE-WATER-TREATMENT	SDG No.:	LB93609
Lab Sample ID:	J1706-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.0032	J	1	0.001		0.005	mg/L	02/27/2018	03/01/2018	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	
Project:	LB93609	Date Received:	
Client Sample ID:	MIDPB106888	SDG No.:	LB93609
Lab Sample ID:	MIDPB106888	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		03/01/2018	SM4500-CN C,]



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Report of Analysis

Client:		Date Collected:	
Project:	LB93609	Date Received:	
Client Sample ID:	MIDPB106888	SDG No.:	LB93609
Lab Sample ID:	MIDPB106888	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: LB93609

SDG No.: LB93609

Contract: _____

Lab Code: CHEM

Case No.: LB93609

SAS No.: LB93609

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	Cyanide	0.098	0.099	99		85 - 115		03/01/2018	10:34	LB93609



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93609

SDG No.: LB93609

Contract: _____ Lab Code: CHEM

Case No.: LB93609

SAS No.: LB93609

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	Cyanide	0.25	0.25	100		90 - 110		03/01/2018	10:34	LB93609
CCV2	Cyanide	0.26	0.25	104		90 - 110		03/01/2018	11:13	LB93609



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93609

SDG No.: LB93609

Contract:

Lab Code: CHEM

Case No.: LB93609

SAS No.: LB93609

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00087	+/-0.005	U		0.005		03/01/2018	10:34	LB93609

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	U		0.005		03/01/2018	10:34	LB93609
CCB2	Cyanide	-0.0011	+/-0.005	U		0.005		03/01/2018	11:13	LB93609



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93609

SDG No.: LB93609

Contract: Lab Code: CHEM

Case No.: LB93609

SAS No.: LB93609

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: LB93609

SDG No.: LB93609

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
PB106888BL	Cyanide	WATER -0.00098	<0.005	Batch Number: U		PB106888 0.005		Prep Date: 03/01/2018	02/27/2018 10:34	LB93609



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MATRIX SPIKE SUMMARY

client: LB93609 level: low sdg no.: LB93609
contract: lab code: CHEM case no.: LB93609 sas no.: LB93609
matrix: WATER sample id: J1706-01 client id: WASTE-WATER-TREATMENTMS
Percent Solids for Sample: 0 Spiked ID: J1706-01MS 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	0.016		0.0032	J	0.04	32	*	



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MATRIX SPIKE DUPLICATE SUMMARY

client: LB93609 level: low sdg no.: LB93609
contract: lab code: CHEM case no.: LB93609 sas no.: LB93609
matrix: WATER sample id: J1706-01 client id: WASTE-WATER-TREATMENTMSD
Percent Solids for Sample: 0 Spiked ID: J1706-01MSD 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	0.015		0.0032	J	0.04	29	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB93609 **Level:** LOW **SDG No.:** LB93609
Contract: **Lab Code:** CHEM **Case No.:** LB93609 **SAS No.:** LB93609
Matrix: WATER **Sample ID:** J1706-01 **Client ID:** WASTE-WATER-TREATMENTDUP
Percent Solids for Sample: 0 **Duplicate ID** J1706-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.0032	J	0.0031	J	3		

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DUPLICATE SAMPLE SUMMARY

Client: LB93609 **Level:** LOW **SDG No.:** LB93609
Contract: **Lab Code:** CHEM **Case No.:** LB93609 **SAS No.:** LB93609
Matrix: WATER **Sample ID:** J1706-01MS **Client ID:** WASTE-WATER-TREATMENTMSD
Percent Solids for Sample: 0 **Duplicate ID** J1706-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.016		0.015		6		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93609

SDG No.: LB93609

Contract:

Lab Code: CHEM

Case No.: LB93609

SAS No.: LB93609

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106888BS Cyanide	mg/L	0.1	0.099		99	85 - 115	