CHEMTECH

Instrument ID : KONELAB

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Daily Analysis Runlog For Sequence/QCBatch ID # LB94111

Review By

Review On

SubDirectory LB94111

Test : Ammonia

STD. NAME	STD REF.#
ICAL Standard	WP63004
ICV Standard	WP63003
CCV Standard	WP63002
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP62903
Chk Standard	WP61582,WP62824,WP62827,WP62828

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.1PPM	0.1PPM	CAL1	03/23/18 13:06		OK
2	0.2PPM	0.2PPM	CAL2	03/23/18 13:06		OK
3	0.4PPM	0.4PPM	CAL3	03/23/18 13:06		OK
4	1.0PPM	1.0PPM	CAL4	03/23/18 13:06		OK
5	1.3PPM	1.3PPM	CAL5	03/23/18 13:06		OK
6	2.0PPM	2.0PPM	CAL6	03/23/18 13:06		OK
7	ICV1	ICV1	ICV	03/23/18 15:28		OK
8	ICB1	ICB1	ICB	03/23/18 15:28		OK
9	CCV1	CCV1	CCV	03/23/18 15:28		OK
10	CCB1	CCB1	CCB	03/23/18 15:28		OK
11	PB107613BL	PB107613BL	MB	03/23/18 15:28		OK
12	PB107613BS	PB107613BS	LCS	03/23/18 15:28		OK
13	J2005-01	SUMP-031918	SAM	03/23/18 15:28		OK
14	J2005-01DUP	SUMP-031918DUP	DUP	03/23/18 15:28		OK
15	J2005-01MS	SUMP-031918MS	MS	03/23/18 15:28		OK
16	J2005-01MSD	SUMP-031918MSD	MSD	03/23/18 15:28		OK
17	J2005-06	MW-1-031918	SAM	03/23/18 15:28		OK
18	J2005-07	MW-2-031918	SAM	03/23/18 15:28		OK
19	J2005-08	MW-7-031918	SAM	03/23/18 15:35		OK
20	CCV2	CCV2	CCV	03/23/18 15:35		OK
21	CCB2	CCB2	CCB	03/23/18 15:35		OK

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Report of Analysis

Client:		Date Collected:	3/19/2018 12:00:00 AM
Project:	LB94111	Date Received:	3/21/2018 12:00:00 AM
Client Sample ID:	SUMP-031918	SDG No.:	LB94111
Lab Sample ID:	J2005-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.084	J	1	0.034		0.1	mg/L	03/23/2018	03/23/2018	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	3/19/2018 12:00:00 AM
Project:	LB94111	Date Received:	3/21/2018 12:00:00 AM
Client Sample ID:	MW-1-031918	SDG No.:	LB94111
Lab Sample ID:	J2005-06	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.58		1	0.034		0.1	mg/L	03/23/2018	03/23/2018	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	3/19/2018 12:00:00 AM
Project:	LB94111	Date Received:	3/21/2018 12:00:00 AM
Client Sample ID:	MW-2-031918	SDG No.:	LB94111
Lab Sample ID:	J2005-07	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.11		1	0.034		0.1	mg/L	03/23/2018	03/23/2018	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	3/19/2018 12:00:00 AM
Project:	LB94111	Date Received:	3/21/2018 12:00:00 AM
Client Sample ID:	MW-7-031918	SDG No.:	LB94111
Lab Sample ID:	J2005-08	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.098	J	1	0.034		0.1	mg/L	03/23/2018	03/23/2018	SM4500-NH3

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Report of Analysis

Client:		Date Collected:	3/19/2018 12:00:00 AM
Project:	LB94111	Date Received:	3/21/2018 12:00:00 AM
Client Sample ID:	MW-7-031918	SDG No.:	LB94111
Lab Sample ID:	J2005-08	Matrix:	WATER
Level (low/med):	low	% Solid:	0

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

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

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94111 **SDG No.:** LB94111

Contract: **Lab Code:** CHEM **Case No.:** LB94111 **SAS No.:** LB94111

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	Ammonia as N	0.92	1	92		90 - 110		03/23/2018	15:28	LB94111

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94111 **SDG No.:** LB94111

Contract: **Lab Code:** CHEM **Case No.:** LB94111 **SAS No.:** LB94111

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	Ammonia as N	0.99	1	99		90 - 110		03/23/2018	15:28	LB94111
CCV2	Ammonia as N	1	1	100		90 - 110		03/23/2018	15:35	LB94111

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94111 **SDG No.:** LB94111

Contract: **Lab Code:** CHEM **Case No.:** LB94111 **SAS No.:** LB94111

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Ammonia as N	0.024	+/-0.1	U		0.1		03/23/2018	15:28	LB94111

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94111 **SDG No.:** LB94111

Contract: **Lab Code:** CHEM **Case No.:** LB94111 **SAS No.:** LB94111

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Ammonia as N	0.02	+/-0.1	U		0.1		03/23/2018	15:28	LB94111
CCB2	Ammonia as N	0.025	+/-0.1	U		0.1		03/23/2018	15:35	LB94111

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94111 **SDG No.:** LB94111

Contract: **Lab Code:** CHEM **Case No.:** LB94111 **SAS No.:** LB94111

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: LB94111 **SDG No.:** LB94111

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
PB107613BL		**WATER**		**Batch Number:**		**PB107613**		**Prep Date:**	**03/23/2018**	
	Ammonia as N	0.027	<0.1	U		0.1		03/23/2018	15:28	LB94111

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MATRIX SPIKE SUMMARY

client: LB94111 **level:** low **sdg no.:** LB94111

contract: **lab code:** CHEM **case no.:** LB94111 **sas no.:** LB94111

matrix: WATER **sample id:** J2005-01 **client id:** SUMP-031918MS

Percent Solids for Sample: 0 **Spiked ID:** J2005-01MS **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/L	75 - 125	1		0.084	J	1	92		

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MATRIX SPIKE DUPLICATE SUMMARY

client: LB94111 **level:** low **sdg no.:** LB94111

contract: **lab code:** CHEM **case no.:** LB94111 **sas no.:** LB94111

matrix: WATER **sample id:** J2005-01 **client id:** SUMP-031918MSD

Percent Solids for Sample: 0 **Spiked ID:** J2005-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/L	75 - 125	0.99		0.084	J	1	91		

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DUPLICATE SAMPLE SUMMARY

Client: LB94111 **Level:** LOW **SDG No.:** LB94111

Contract: **Lab Code:** CHEM **Case No.:** LB94111 **SAS No.:** LB94111

Matrix: WATER **Sample ID:** J2005-01 **Client ID:** SUMP-031918DUP

Percent Solids for Sample: 0 **Duplicate ID** J2005-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/L	20	0.084	J	0.09	J	7		

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: LB94111 **Level:** LOW **SDG No.:** LB94111

Contract: **Lab Code:** CHEM **Case No.:** LB94111 **SAS No.:** LB94111

Matrix: WATER **Sample ID:** J2005-01MS **Client ID:** SUMP-031918MSD

Percent Solids for Sample: 0 **Duplicate ID** J2005-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/L	20	1		0.99		1		

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94111 **SDG No.:** LB94111

Contract: **Lab Code:** CHEM **Case No.:** LB94111 **SAS No.:** LB94111

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB107613BS							
Ammonia as N	mg/L	1	0.93		93	80 - 120	