

LB86961

Client:

GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

SDG No.: LB86961

Contract:		Lab C	Code: CH	EM	Ca	se No.: LB86961		SAS	No.: <u>LB8</u>	6961
Initial Calibrat	tion Source:									
Continuing Cal	libration Source:									
		Result								
		mg/L	True Value	%	%	Acceptance		Analysis	Analysis	Run
Sample ID	Analyte			Recovery	RSD	Window (%R)	M	Date	Time	Number
ICV1	Ammonia as N	0.96	1	96	0	90 - 110		04/19/2017	11:04	LB86961



- 2a - INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86961			SDG No.:	LB86961	
Contract:	Lab Code:	СНЕМ	Case No.:	LB86961	SAS No.: <u>LB86961</u>
Initial Calibration Source:		_			
Continuing Calibration Source:					

		Result mg/L	True Value	%	%	Acceptance		Analysis	Analysis	Run
Sample ID	Analyte			Recovery	RSD	Window (%R)	M	Date	Time	Number
CCV1	Ammonia as N	0.95	1	95	0	90 - 110		04/19/2017	11:04	LB86961
CCV2	Ammonia as N	0.94	1	94	0	90 - 110		04/19/2017	11:14	LB86961
CCV3	Ammonia as N	0.95	1	95	0	90 - 110		04/19/2017	11:25	LB86961
CCV4	Ammonia as N	0.96	1	96	0	90 - 110		04/19/2017	11:25	LB86961
CCV5	Ammonia as N	1	1	100	0	90 - 110		04/19/2017	11:50	LB86961



- 3a -INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86961 SDG No.: LB86961

Contract: Lab Code: CHEM Case No.: LB86961 SAS No.: LB86961

			-		•					
Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICP1	Ammonia as N	0.0027	+/-0.1	II		0	1	04/19/2017	11:04	I B86961



- 3a INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86961 **SDG No.:** LB86961

Contract: Lab Code: CHEM Case No.: LB86961 SAS No.: LB86961

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL M	Analysis Date	Analysis Time	Run Number
CCB1	Ammonia as N	0.01	+/-0.1	U		0.1	04/19/2017	11:04	LB86961
CCB2	Ammonia as N	0.013	+/-0.1	U		0.1	04/19/2017	11:14	LB86961
CCB3	Ammonia as N	0.014	+/-0.1	U		0.1	04/19/2017	11:25	LB86961
CCB4	Ammonia as N	0.017	+/-0.1	U		0.1	04/19/2017	11:25	LB86961
CCB5	Ammonia as N	0.017	+/-0.1	U		0.1	04/19/2017	11:50	LB86961



- 3a INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86961				SDC	G No.:	LB86961			
Contract:	Lab Code	<u>CHEM</u>		Cas	e No.:	LB86961	_	SAS No.: LB	86961
Sample ID Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CROL	. М	Analysis Date	Analysis Time	Run Number



Client: Date Collected: 4/14/2017 12:00:00 AM

Project: LB86961 Date Received: 4/14/2017 12:00:00 AM

Client Sample ID: SW16A SDG No.: LB86961 Lab Sample ID: 12710-01 Matrix: WATER

Cas	Parameter	Conc.	Qua. DF	MDL	LOD LOQ/CR	QL Unit	s Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.18	1	0.034	0.1	ma/I	04/18/2017	04/19/201	7 SM4500-NH3



Client: Date Collected: 4/14/2017 12:00:00 AM

Project: LB86961 Date Received: 4/14/2017 12:00:00 AM

Client Sample ID: SW13 SDG No.: LB86961 Lab Sample ID: 12710-02 Matrix: WATER

Cas	Parameter	Conc.	Qua. DF	MDL	LOD LOQ/CR	QL Unit	s Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.18	1	0.034	0.1	ma/I	04/18/2017	04/19/201	7 SM4500-NH3



Client: Date Collected: 4/14/2017 12:00:00 AM

Project: LB86961 Date Received: 4/14/2017 12:00:00 AM

Client Sample ID: SW12 SDG No.: LB86961 Lab Sample ID: I2710-03 Matrix: WATER

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQI	Unit	s Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.2		1	0.034		0.1	mg/L	04/18/2017	04/19/2017	7 SM4500-NH3



Client: Date Collected: 4/14/2017 12:00:00 AM

Project: LB86961 Date Received: 4/14/2017 12:00:00 AM

Client Sample ID: SW3 SDG No.: LB86961 Lab Sample ID: 12710-04 Matrix: WATER

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQI	Unit	s Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.1		1	0.034		0.1	mg/L	04/18/2017	04/19/2017	7 SM4500-NH3



Client: Date Collected: 4/14/2017 12:00:00 AM

Project: LB86961 Date Received: 4/14/2017 12:00:00 AM

Client Sample ID: SW11 SDG No.: LB86961
Lab Sample ID: 12710-07 Matrix: WATER

Cas	Parameter	Conc.	Qua. DF	MDL	LOD LOQ/CI	RQL Units 1	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.21	1	0.034	0.1	mg/I (04/18/2017	04/19/2013	7 SM4500-NH3



Client: Date Collected: 4/14/2017 12:00:00 AM

Project: LB86961 Date Received: 4/14/2017 12:00:00 AM

Client Sample ID: SW6 SDG No.: LB86961 Lab Sample ID: 12710-08 Matrix: WATER

Cas	Parameter	Conc.	Qua. DF	MDL	LOD LOQ/CI	RQL Units 1	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.21	1	0.034	0.1	mg/I (04/18/2017	04/19/2013	7 SM4500-NH3



Client: Date Collected: 4/14/2017 12:00:00 AM

Project: LB86961 Date Received: 4/14/2017 12:00:00 AM

Client Sample ID: SW7 SDG No.: LB86961 Lab Sample ID: 12710-09 Matrix: WATER

Cas	Parameter	Conc.	Qua. DF	MDL	LOD LOQ/CRO	QL Unit	s Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.56	1	0.034	0.1	mg/I	04/18/2017	04/19/201	7 SM4500-NH3



Client: Date Collected: 4/14/2017 12:00:00 AM

Project: LB86961 Date Received: 4/14/2017 12:00:00 AM

Client Sample ID: SW5 SDG No.: LB86961 Lab Sample ID: 12710-10 Matrix: WATER

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Unit	s Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.078	T	1	0.034		0.1	mg/I	04/18/2017	04/19/201	7 SM4500-NH3



Client: Date Collected: 4/14/2017 12:00:00 AM

Project: LB86961 Date Received: 4/14/2017 12:00:00 AM

Client Sample ID: SW9 SDG No.: LB86961 Lab Sample ID: 12710-11 Matrix: WATER

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Unit	s Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.14		1	0.034		0.1	mg/L	04/18/2017	04/19/2017	7 SM4500-NH3



Client: Date Collected: 4/14/2017 12:00:00 AM

Project: LB86961 Date Received: 4/14/2017 12:00:00 AM

Client Sample ID: SW4 SDG No.: LB86961 Lab Sample ID: 12710-12 Matrix: WATER

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Unit	s Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.086	T	1	0.034		0.1	mg/I	04/18/2017	04/19/201	7 SM4500-NH3



Client: Date Collected: 4/14/2017 12:00:00 AM

Project: LB86961 Date Received: 4/14/2017 12:00:00 AM

Client Sample ID: SW17 SDG No.: LB86961 Lab Sample ID: I2710-13 Matrix: WATER

Cas	Parameter	Conc.	Qua. DF	MDL	LOD LOQ/CI	RQL Units P	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.31	1	0.034	0.1	mg/I ()	4/18/2017	04/19/2017	7 SM4500-NH3



Client: Date Collected: 4/14/2017 12:00:00 AM

Project: LB86961 Date Received: 4/14/2017 12:00:00 AM

Client Sample ID: SW14 SDG No.: LB86961 Lab Sample ID: I2710-14 Matrix: WATER

Cas	Parameter	Conc.	Qua. DI	MDL	LOD LOQ/CRQL	Units Prep Date	Date Ana. Ana Met.
	Ammonia as N	0.25	1	0.034	0.1	mg/I 04/18/2017	04/19/2017 SM4500-NH3



Client: Date Collected: 4/17/2017 12:00:00 AM

Project: LB86961 Date Received: 4/17/2017 12:00:00 AM

Client Sample ID: EME-COMPOST-1 SDG No.: LB86961

Lab Sample ID: 12732-01 Matrix: Solid

Level (low/med): low % Solid: 47.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units Prep Date	Date Ana. Ana Met.
	Ammonia as N	180		1	3.5		10.2	mg/Kg 04/18/2017	04/19/2017 SM4500-NH3



Lab Sample ID:

I2735-01

Report of Analysis

Client: Date Collected: 4/17/2017 12:00:00 AM

Project: LB86961 Date Received: 4/17/2017 12:00:00 AM

Matrix:

Solid

Client Sample ID: EME-COMPOST-01 SDG No.: LB86961

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units Prep Date	Date Ana.	Ana Met.
	Ammonia as N	270	OR	1	3.9		11.5	mg/Kg 04/18/2017	04/19/2017	7 SM4500-NH3



Client: Date Collected: 4/17/2017 12:00:00 AM

Project: LB86961 Date Received: 4/17/2017 12:00:00 AM

Client Sample ID: EME-COMPOST-01DL SDG No.: LB86961

Lab Sample ID: 12735-01DL Matrix: Solid

Level (low/med): low % Solid: 41.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units Prep Date	Date Ana.	Ana Met.
	Ammonia as N	283	D	2	7.8		23	mg/Kg 04/18/2017	04/19/2017	7 SM4500-NH3



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax: 908 789 8922

Report of Analysis

4/17/2017 12:00:00 AM Client: Date Collected:

Project: LB86961 Date Received: 4/17/2017 12:00:00 AM

Matrix:

Solid

SDG No.: Client Sample ID: EME-COMPOST-01DL LB86961

Lab Sample ID: 41.8 % Solid: Level (low/med): low

I2735-01DL

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

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 - 3b PREPARATION BLANK SUMMARY

Client: LB86961 **SDG No.:** LB86961

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
PB98318BL		WATER		Batch Nu	mber:	PB98318		Prep Date:	04/18/20)17
	Ammonia as N	0.013	< 0.1	U		0.1		04/19/2017	11:04	LB86961
		Result	Acceptance	Conc	LOD	CRQL		Analysis	Analysis	
Sample ID	Analyte	(mg/Kg)	Limit	Qual	mg/Kg	mg/Kg	M	Date	Time	Run
PB98319BL		SOLID		Batch Nu	mber:	PB98319		Prep Date:	04/18/20)17
	Ammonia as N	0.64	<5	U		5		04/19/2017	11:04	LB86961



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MATRIX SPIKE SUMMARY

client:	LB86961		level:	low		sdg no.:	LB86961		_	
contract:			lab cod	le: <u>CH</u>	EM	case no.:	LB86961	sa	s no.:	LB86961
matrix:	WATER		sample id:	I2710-01	1	_ client id:	SW16AMS		_	
Percent So	lids for Sample:	0	Spiked ID:	I2710-	01MS	Percent Solid	ls for Spike Sa	mple:	0	
		Acceptance	Spiked	Sample	e	Spike	%			
Analyte	Units	Limit %R	Result C	Result	C	Added	Recovery	Qual	M	
Ammonia as	N mg/L	75 - 125	1.1	0.18		1	92			



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MATRIX SPIKE DUPLICATE SUMMARY

client:	LB86961		level:	low		sdg no.:	LB86961		_	
contract:			lab code	e: <u>CHEM</u>	[case no.:	LB86961	sa	s no.:	LB86961
matrix:	WATER		sample id:	I2710-01		_ client id:	SW16AMSD	ı	_	
Percent So	lids for Sample:	0	Spiked ID:	I2710-01N	/ISD	Percent Solid	s for Spike Sa	mple:	0	
		Acceptance	MSD	Sample		Spike	%			
Analyte	Units	Limit %R	Result C	Result	C	Added	Recovery	Qual	M	
Ammonia as	N mg/L	75 - 125	1.1	0.18		1	92			



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MATRIX SPIKE SUMMARY

client:	LB86961		leve	l:	low		sdg no.:	LB86961		_	
contract:			lab	code	: <u>CHEM</u>		case no.:	LB86961	sa	s no.:	LB86961
matrix:	Solid		sample io	d:	<u>12732-01</u>		_ client id:	EME-COMP	OST-1M	<u>S</u>	
Percent Sol	ids for Sample:	47.2	Spiked I	D:	I2732-01M	S	Percent Solid	s for Spike Sa	mple:	4	7.2
		Acceptance	Spiked		Sample		Spike	%			
Analyte	Units	Limit %R	Result	C	Result	C	Added	Recovery	Qual	M	
Ammonia as	N mg/Kg	75 - 125	319	OR	180		100	139	*		



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MATRIX SPIKE DUPLICATE SUMMARY

client: I	LB86961		level:	low		sdg no.:	LB86961		_	
contract:			lab co	de: CHE	М	case no.:	LB86961	sa	s no.:	LB86961
matrix:	Solid		sample id:	<u>I2732-01</u>		_ client id:	EME-COMP	OST-1M	SD	
Percent Soli	ds for Sample:	47.2	Spiked ID:	: I2732-01	MSD	Percent Solid	ls for Spike Sa	mple:	47	7.2
		Acceptance	MSD	Sample		Spike	%			
Analyte	Units	Limit %R	Result	C Result	C	Added	Recovery	Qual	M	
Ammonia as l	N mg/Kg	75 - 125	321 (OR 180		100	141	*		



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Client: L	B86961		Level: L	OW	SDC	G No.:	LB86961		_	
Contract:			Lab Code:	CHEM	Cas	se No.:	LB86961	SA	AS No.:	LB86961
Matrix:	WATER		Sample ID: 12	2710-01	Client	ID:	SW16ADUI)	_	
Percent Soli	ds for Sample:	0	Duplicate ID 12	2710-01DUP	Percen	t Solids	for Spike S	ample:	0	
		Acceptance	Sample		Duplicate					
Analyte	Units	Limit	Result	C	Result	C	RPD	Qual	M	
Ammonia as N	I mg/I	20	0.18		0.18	!	0			



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Client:	LB86961		Level: L	LOW	SDG	No.:	LB86961		_	
Contract:			Lab Code:	CHEM	Case	No.:	LB86961	S.	AS No.:	LB86961
Matrix:	WATER		Sample ID: I	2710-01MS	Client I	D:	S <u>W16AMSI</u>)	_	
Percent Soli	ids for Sample:	0	Duplicate ID I	2710-01MSD	Percent	Solids	for Spike Sa	mple:	0	
		Acceptance	Sample		Duplicate					
Analyte	Units	Limit	Result	C	Result	C	RPD	Qual	M	
Ammonia ac	N mg/I	20	1.1		1.1		0			



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Client: L	Intrix: Solid Sample ID: 12732-01 Client ID: EME-COMPOST-1DUP ercent Solids for Sample: 47.2 Duplicate ID 12732-01DUP Percent Solids for Spike Sample: 47.2 Acceptance Sample Duplicate Analyte Units Limit Result C Result C RPD Qual M									
Contract:	Contract: Lab Code: CHEM Case No.: LB86961 SAS No.: LB86961									
Matrix:	Solid		Sample ID: 127	732-01	Client	ID:	Е <u>МЕ-СОМЕ</u>	POST-1DU	JP	
Percent Solid	ds for Sample:	47.2	Duplicate ID 127	732-01DUP	Percen	t Solids	for Spike Sa	imple:	47.	2
		Acceptance	Sample		Duplicate					
Analyte	Units	Limit	Result	C	Result	C	RPD	Qual	M	
Ammonia as N	ma/Ka	20	180		193		2			



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Client: LI	386961		Level: LC	OW	SDG	No.:	LB86961		_	
Contract:			Lab Code:	CHEM	Case	No.:	LB86961	S A	AS No.:	LB86961
Matrix:	Solid		Sample ID: 12	732-01MS	Client II): I	ЕМЕ-СОМЕ	OST-1M	SD	
Percent Solid	s for Sample:	47.2	Duplicate ID 12	732-01MSD	Percent	Solids 1	for Spike Sa	mple:	47.	2
		Acceptance	Sample		Duplicate					
Analyte	Units	Limit	Result	C	Result	C	RPD	Qual	M	
Ammonia as N	mg/K g	20	319	OR	321	OR	1			



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LABORATORY CONTROL SAMPLE SUMMARY

Client:	LB86961			SDG No.:	LB86961		
Contract:		Lab Code:	CHEM	Case No.:	LB86961	SAS No.:	LB86961

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M	
PB98318BS								
Ammonia as N	mg/L	1	0.96		96	80 - 120		



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LABORATORY CONTROL SAMPLE SUMMARY

Client:	LB86961			SDG No.:	LB86961			
Contract:		Lab Code:	CHEM	Case No.:	LB86961	SAS No.:	LB86961	

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB98319BS	Units	True value	Result	<u> </u>	Recovery	Limits	IVI
Ammonia as N	mg/Kg	50	48.6		97.2	80 - 120	