





## GENCHEM

- 2a -

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86961

SDG No.: LB86961

Contract: \_\_\_\_\_ Lab Code: CHEM

Case No.: LB86961

SAS No.: LB86961

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	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



**GENCHEM**

- 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
ICB1	Ammonia as N	0.0027	+/-0.1	U		0.1		04/19/2017	11:04	LB86961



**GENCHEM**

- 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



GENCHEM

- 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
-----------	---------	----------------	---------------------	--------------	-----	------	---	------------------	------------------	---------------



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

## Report of Analysis

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:	I2710-01	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	0.18		1	0.034		0.1	mg/L	04/18/2017	04/19/2017	SM4500-NH3



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

## Report of Analysis

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:	I2710-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.18		1	0.034		0.1	mg/L	04/18/2017	04/19/2017	SM4500-NH3



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

## Report of Analysis

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
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	0.2		1	0.034		0.1	mg/L	04/18/2017	04/19/2017	SM4500-NH3





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

## Report of Analysis

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:	I2710-04	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	0.1		1	0.034		0.1	mg/L	04/18/2017	04/19/2017	SM4500-NH3



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

## Report of Analysis

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:	I2710-07	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	0.21		1	0.034		0.1	mg/L	04/18/2017	04/19/2017	SM4500-NH3



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

## Report of Analysis

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:	I2710-08	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	0.21		1	0.034		0.1	mg/L	04/18/2017	04/19/2017	SM4500-NH3



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

## Report of Analysis

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:	I2710-09	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.56		1	0.034		0.1	mg/L	04/18/2017	04/19/2017	SM4500-NH3



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

## Report of Analysis

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:	I2710-10	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	0.078	J	1	0.034		0.1	mg/L	04/18/2017	04/19/2017	SM4500-NH3



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

## Report of Analysis

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:	I2710-11	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	0.14		1	0.034		0.1	mg/L	04/18/2017	04/19/2017	SM4500-NH3



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

## Report of Analysis

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:	I2710-12	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	0.086	J	1	0.034		0.1	mg/L	04/18/2017	04/19/2017	SM4500-NH3



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

## Report of Analysis

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
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	0.31		1	0.034		0.1	mg/L	04/18/2017	04/19/2017	SM4500-NH3





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

## Report of Analysis

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
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	0.25		1	0.034		0.1	mg/L	04/18/2017	04/19/2017	SM4500-NH3



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

## Report of Analysis

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:	I2732-01	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



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

## Report of Analysis

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-01	SDG No.:	LB86961
Lab Sample ID:	I2735-01	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	270	OR	1	3.9		11.5	mg/Kg	04/18/2017	04/19/2017	SM4500-NH3



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

## Report of Analysis

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:	I2735-01DL	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	SM4500-NH3



## Report of Analysis

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:	I2735-01DL	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.
-----	-----------	-------	------	----	-----	-----	------------	-------	-----------	-----------	----------

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



GENCHEM  
- 5a -  
MATRIX SPIKE SUMMARY

client: LB86961 level: low sdg no.: LB86961  
contract: lab code: CHEM case no.: LB86961 sas no.: LB86961  
matrix: WATER sample id: I2710-01 client id: SW16AMS  
Percent Solids for Sample: 0 Spiked ID: I2710-01MS 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	1.1		0.18		1	92		



GENCHEM  
- 5a -  
MATRIX SPIKE DUPLICATE SUMMARY

client: LB86961 level: low sdg no.: LB86961  
contract: lab code: CHEM case no.: LB86961 sas no.: LB86961  
matrix: WATER sample id: I2710-01 client id: SW16AMSD  
Percent Solids for Sample: 0 Spiked ID: I2710-01MSD 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	1.1		0.18		1	92		





GENCHEM  
- 5a -  
MATRIX SPIKE SUMMARY

client: LB86961 level: low sdg no.: LB86961  
contract: lab code: CHEM case no.: LB86961 sas no.: LB86961  
matrix: Solid sample id: I2732-01 client id: EME-COMPOST-1MS  
Percent Solids for Sample: 47.2 Spiked ID: I2732-01MS Percent Solids for Spike Sample: 47.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/Kg	75 - 125	319	OR	180		100	139	*	



GENCHEM  
- 5a -  
MATRIX SPIKE DUPLICATE SUMMARY

client: LB86961 level: low sdg no.: LB86961  
contract: lab code: CHEM case no.: LB86961 sas no.: LB86961  
matrix: Solid sample id: I2732-01 client id: EME-COMPOST-1MSD  
Percent Solids for Sample: 47.2 Spiked ID: I2732-01MSD Percent Solids for Spike Sample: 47.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/Kg	75 - 125	321	OR	180		100	141	*	

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB86961      **Level:** LOW      **SDG No.:** LB86961  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB86961      **SAS No.:** LB86961  
**Matrix:** WATER      **Sample ID:** I2710-01      **Client ID:** SW16ADUP  
**Percent Solids for Sample:** 0      **Duplicate ID** I2710-01DUP      **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	0.18		0.18		0		

## GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

Client: LB86961 Level: LOW SDG No.: LB86961  
Contract: \_\_\_\_\_ Lab Code: CHEM Case No.: LB86961 SAS No.: LB86961  
Matrix: WATER Sample ID: I2710-01MS Client ID: SW16AMSD  
Percent Solids for Sample: 0 Duplicate ID I2710-01MSD 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	1.1		1.1		0		

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB86961      **Level:** LOW      **SDG No.:** LB86961  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB86961      **SAS No.:** LB86961  
**Matrix:** Solid      **Sample ID:** I2732-01      **Client ID:** EME-COMPOST-1DUP  
**Percent Solids for Sample:** 47.2      **Duplicate ID** I2732-01DUP      **Percent Solids for Spike Sample:** 47.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/Kg	20	180		183		2		

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB86961      **Level:** LOW      **SDG No.:** LB86961  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB86961      **SAS No.:** LB86961  
**Matrix:** Solid      **Sample ID:** I2732-01MS      **Client ID:** EME-COMPOST-1MSD  
**Percent Solids for Sample:** 47.2      **Duplicate ID** I2732-01MSD      **Percent Solids for Spike Sample:** 47.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/Kg	20	319	OR	321	OR	1		



GENCHEM

- 7 -

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	



GENCHEM

- 7 -

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 Ammonia as N	mg/Kg	50	48.6		97.2	80 - 120	