





## GENCHEM

- 2a -

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86898

SDG No.: LB86898

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

Case No.: LB86898

SAS No.: LB86898

Initial Calibration Source: \_\_\_\_\_

Continuing Calibration Source: \_\_\_\_\_

| Sample ID | Analyte      | Result<br>mg/L | True Value | %<br>Recovery | %<br>RSD | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|--------------|----------------|------------|---------------|----------|---------------------------|---|------------------|------------------|---------------|
| CCV1      | Ammonia as N | 0.99           | 1          | 99            | 0        | 90 - 110                  |   | 04/14/2017       | 14:38            | LB86898       |
| CCV2      | Ammonia as N | 0.98           | 1          | 98            | 0        | 90 - 110                  |   | 04/14/2017       | 14:38            | LB86898       |



**GENCHEM**

- 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB86898

SDG No.: LB86898

**Contract:**

Lab Code: CHEM

**Case No.:** LB86898

**SAS No.:** LB86898

| Sample ID | Analyte      | Result<br>mg/L | Acceptance<br>Limit | Conc<br>Qual | LOD | CRQL | M   | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|--------------|----------------|---------------------|--------------|-----|------|-----|------------------|------------------|---------------|
| ICB1      | Ammonia as N | 0.041          | +/-0.1              | J            |     |      | 0.1 | 04/14/2017       | 14:38            | LB86898       |



**GENCHEM**

- 3a -

### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB86898

SDG No.: LB86898

**Contract:**

Lab Code: CHEM

**Case No.:** LB86898

**SAS No.:** LB86898

| Sample ID | Analyte      | Result<br>mg/L | Acceptance<br>Limit | Conc<br>Qual | LOD | CRQL | M   | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|--------------|----------------|---------------------|--------------|-----|------|-----|------------------|------------------|---------------|
| CCB1      | Ammonia as N | 0.046          | +/-0.1              | J            |     |      | 0.1 | 04/14/2017       | 14:38            | LB86898       |
| CCB2      | Ammonia as N | 0.04           | +/-0.1              | J            |     |      | 0.1 | 04/14/2017       | 14:43            | LB86898       |



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86898

SDG No.: LB86898

Contract: Lab Code: CHEM

Case No.: LB86898

SAS No.: LB86898

| Sample ID | Analyte | Result<br>mg/L | Acceptance<br>Limit | Conc<br>Qual | LOD | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|
|-----------|---------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|



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

## Report of Analysis

|                   |                     |                 |                       |
|-------------------|---------------------|-----------------|-----------------------|
| Client:           |                     | Date Collected: | 4/11/2017 12:00:00 AM |
| Project:          | LB86898             | Date Received:  | 4/12/2017 12:00:00 AM |
| Client Sample ID: | EME-BW-PLANTINGSOIL | SDG No.:        | LB86898               |
| Lab Sample ID:    | I2663-01            | Matrix:         | Solid                 |
| Level (low/med):  | low                 | % Solid:        | 79.7                  |

| Cas | Parameter    | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|-----|--------------|-------|------|----|-----|-----|------------|-------|------------|------------|------------|
|     | Ammonia as N | 35.9  |      | 1  | 2.1 |     | 6          | mg/Kg | 04/13/2017 | 04/14/2017 | SM4500-NH3 |



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

## Report of Analysis

|                   |                   |                 |                       |
|-------------------|-------------------|-----------------|-----------------------|
| Client:           |                   | Date Collected: | 4/11/2017 12:00:00 AM |
| Project:          | LB86898           | Date Received:  | 4/12/2017 12:00:00 AM |
| Client Sample ID: | EME-PRODUCED-4-10 | SDG No.:        | LB86898               |
| Lab Sample ID:    | I2666-01          | Matrix:         | Solid                 |
| Level (low/med):  | low               | % Solid:        | 79.5                  |

| Cas | Parameter    | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|-----|--------------|-------|------|----|-----|-----|------------|-------|------------|------------|------------|
|     | Ammonia as N | 29.9  |      | 1  | 2.1 |     | 6          | mg/Kg | 04/13/2017 | 04/14/2017 | SM4500-NH3 |



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

## Report of Analysis

|                   |                   |                 |                       |
|-------------------|-------------------|-----------------|-----------------------|
| Client:           |                   | Date Collected: | 4/11/2017 12:00:00 AM |
| Project:          | LB86898           | Date Received:  | 4/12/2017 12:00:00 AM |
| Client Sample ID: | EME-PRODUCED-4-10 | SDG No.:        | LB86898               |
| Lab Sample ID:    | I2666-01          | Matrix:         | Solid                 |
| Level (low/med):  | low               | % Solid:        | 79.5                  |

| 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:** LB86898

**SDG No.:** LB86898

**Instrument:** Konelab 20

| Sample ID        | Analyte      | Result<br>(mg/Kg) | Acceptance<br>Limit | Conc<br>Qual         | LOD<br>mg/Kg | CRQL<br>mg/Kg  | M | Analysis<br>Date  | Analysis<br>Time  | Run     |
|------------------|--------------|-------------------|---------------------|----------------------|--------------|----------------|---|-------------------|-------------------|---------|
| <b>PB98244BL</b> |              | <b>SOLID</b>      |                     | <b>Batch Number:</b> |              | <b>PB98244</b> |   | <b>Prep Date:</b> | <b>04/13/2017</b> |         |
|                  | Ammonia as N | 2                 | <5                  | J                    |              | 5              |   | 04/14/2017        | 14:38             | LB86898 |



GENCHEM  
- 5a -  
MATRIX SPIKE SUMMARY

client: LB86898 level: low sdg no.: LB86898  
contract: lab code: CHEM case no.: LB86898 sas no.: LB86898  
matrix: Solid sample id: I2663-01 client id: EME-BW-PLANTINGSOILMS  
Percent Solids for Sample: 79.7 Spiked ID: I2663-01MS Percent Solids for Spike Sample: 79.7

| Analyte      | Units | Acceptance<br>Limit %R | Spiked<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M |
|--------------|-------|------------------------|------------------|---|------------------|---|----------------|---------------|------|---|
| Ammonia as N | mg/Kg | 75 - 125               | 98.7             |   | 35.9             |   | 60.9           | 103           |      |   |



GENCHEM  
- 5a -  
MATRIX SPIKE DUPLICATE SUMMARY

client: LB86898 level: low sdg no.: LB86898  
contract: lab code: CHEM case no.: LB86898 sas no.: LB86898  
matrix: Solid sample id: I2663-01 client id: EME-BW-PLANTINGSOILMSD  
Percent Solids for Sample: 79.7 Spiked ID: I2663-01MSD Percent Solids for Spike Sample: 79.7

| Analyte      | Units | Acceptance<br>Limit %R | MSD<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M |
|--------------|-------|------------------------|---------------|---|------------------|---|----------------|---------------|------|---|
| Ammonia as N | mg/Kg | 75 - 125               | 100           |   | 35.9             |   | 61.5           | 104           |      |   |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB86898      **Level:** LOW      **SDG No.:** LB86898  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB86898      **SAS No.:** LB86898  
**Matrix:** Solid      **Sample ID:** I2663-01      **Client ID:** EME-BW-PLANTINGSOILDUP  
**Percent Solids for Sample:** 79.7      **Duplicate ID** I2663-01DUP      **Percent Solids for Spike Sample:** 79.7

| Analyte      | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|--------------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Ammonia as N | mg/Kg | 20                  | 35.9             |   | 36.1                |   | 1   |      |   |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB86898      **Level:** LOW      **SDG No.:** LB86898  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB86898      **SAS No.:** LB86898  
**Matrix:** Solid      **Sample ID:** I2663-01MS      **Client ID:** EME-BW-PLANTINGSOILMSD  
**Percent Solids for Sample:** 79.7      **Duplicate ID** I2663-01MSD      **Percent Solids for Spike Sample:** 79.7

| Analyte      | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|--------------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Ammonia as N | mg/Kg | 20                  | 98.7             |   | 100                 |   | 1   |      |   |



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86898

SDG No.: LB86898

Contract:

Lab Code: CHEM

Case No.: LB86898

SAS No.: LB86898

| Analyte                   | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|---------------------------|-------|------------|--------|---|---------------|----------------------|---|
| PB98244BS<br>Ammonia as N | mg/Kg | 50         | 49.7   |   | 99.4          | 80 - 120             |   |