

## Daily Analysis Runlog For Sequence/QC Batch ID # LB90066

|              |  |           |  |                |  |  |
|--------------|--|-----------|--|----------------|--|--|
| Review By    |  | Review On |  |                |  |  |
| SubDirectory |  | LB90066   |  | Test : Ammonia |  |  |

| STD. NAME     | STD REF.#                       |
|---------------|---------------------------------|
| ICAL Standard | WP57880                         |
| ICV Standard  | WP57881                         |
| CCV Standard  | WP57882                         |
| ICSA Standard | N/A                             |
| CRI Standard  | N/A                             |
| LCS Standard  | WP57858                         |
| Chk Standard  | WP57031,WP57459,WP57237,WP57238 |

| Sr# | SampleID    | ClientID        | QcType | Date           | Comment | Status |
|-----|-------------|-----------------|--------|----------------|---------|--------|
| 1   | 0.1PPM      | 0.1PPM          | CAL1   | 09/14/17 10:00 |         | OK     |
| 2   | 0.2PPM      | 0.2PPM          | CAL2   | 09/14/17 10:00 |         | OK     |
| 3   | 0.4PPM      | 0.4PPM          | CAL3   | 09/14/17 10:00 |         | OK     |
| 4   | 1.0PPM      | 1.0PPM          | CAL4   | 09/14/17 10:00 |         | OK     |
| 5   | 1.3PPM      | 1.3PPM          | CAL5   | 09/14/17 10:00 |         | OK     |
| 6   | 2.0PPM      | 2.0PPM          | CAL6   | 09/14/17 10:00 |         | OK     |
| 7   | ICV1        | ICV1            | ICV    | 09/14/17 10:31 |         | OK     |
| 8   | ICB1        | ICB1            | ICB    | 09/14/17 10:31 |         | OK     |
| 9   | CCV1        | CCV1            | CCV    | 09/14/17 10:31 |         | OK     |
| 10  | CCB1        | CCB1            | CCB    | 09/14/17 10:31 |         | OK     |
| 11  | PB102321BL  | PB102321BL      | MB     | 09/14/17 10:31 |         | OK     |
| 12  | PB102321BS  | PB102321BS      | LCS    | 09/14/17 10:31 |         | OK     |
| 13  | I5219-01    | FK-PS-01-015    | SAM    | 09/14/17 10:31 |         | OK     |
| 14  | I5219-01DUP | FK-PS-01-015DUP | DUP    | 09/14/17 10:31 |         | OK     |
| 15  | I5219-01MS  | FK-PS-01-015MS  | MS     | 09/14/17 10:31 |         | OK     |
| 16  | I5219-01MSD | FK-PS-01-015MSD | MSD    | 09/14/17 10:31 |         | OK     |
| 17  | CCV2        | CCV2            | CCV    | 09/14/17 10:31 |         | OK     |
| 18  | CCB2        | CCB2            | CCB    | 09/14/17 10:31 |         | OK     |



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## Report of Analysis

|                   |              |                 |                       |
|-------------------|--------------|-----------------|-----------------------|
| Client:           |              | Date Collected: | 9/12/2017 12:00:00 AM |
| Project:          | LB90066      | Date Received:  | 9/12/2017 12:00:00 AM |
| Client Sample ID: | FK-PS-01-015 | SDG No.:        | LB90066               |
| Lab Sample ID:    | I5219-01     | Matrix:         | Solid                 |
| Level (low/med):  | low          | % Solid:        | 92.2                  |

| Cas | Parameter    | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|-----|--------------|-------|------|----|-----|-----|------------|-------|------------|------------|------------|
|     | Ammonia as N | 16.6  |      | 1  | 1.8 |     | 5.3        | mg/Kg | 09/13/2017 | 09/14/2017 | SM4500-NH3 |



## Report of Analysis

|                   |              |                 |                       |
|-------------------|--------------|-----------------|-----------------------|
| Client:           |              | Date Collected: | 9/12/2017 12:00:00 AM |
| Project:          | LB90066      | Date Received:  | 9/12/2017 12:00:00 AM |
| Client Sample ID: | FK-PS-01-015 | SDG No.:        | LB90066               |
| Lab Sample ID:    | I5219-01     | Matrix:         | Solid                 |
| Level (low/med):  | low          | % Solid:        | 92.2                  |

| 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

- 2a -

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90066

SDG No.: LB90066

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

Case No.: LB90066

SAS No.: LB90066

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

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

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| 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 | 0.98           | 1          | 98            | 0        | 90 - 110                  |   | 09/14/2017       | 10:31            | LB90066       |
| CCV2      | Ammonia as N | 1              | 1          | 100           | 0        | 90 - 110                  |   | 09/14/2017       | 10:31            | LB90066       |

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**GENCHEM**

- 3a -

### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB90066

SDG No.: LB90066

**Contract:**

Lab Code: CHEM

**Case No.:** LB90066

**SAS No.:** LB90066

| 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 | 0.015          | +/-0.1              | U            |     | 0.1  |   | 09/14/2017       | 10:31            | LB90066       |



**GENCHEM**

- 3a -

### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB90066

SDG No.: LB90066

**Contract:**

Lab Code: CHEM

**Case No.:** LB90066

**SAS No.:** LB90066

| 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 | 0.013          | +/-0.1              | U            |     |      | 0.1 | 09/14/2017       | 10:31            | LB90066       |
| CCB2      | Ammonia as N | 0.0099         | +/-0.1              | U            |     |      | 0.1 | 09/14/2017       | 10:31            | LB90066       |



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90066

SDG No.: LB90066

Contract: Lab Code: CHEM

Case No.: LB90066

SAS No.: LB90066

| 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 |
|-----------|---------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|
|-----------|---------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|



**GENCHEM**  
**- 3b -**  
**PREPARATION BLANK SUMMARY**

**Client:** LB90066

**SDG No.:** LB90066

**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>PB102321BL</b> |              | <b>SOLID</b>      |                     | <b>Batch Number:</b> |              | <b>PB102321</b> |   | <b>Prep Date:</b> | <b>09/13/2017</b> |         |
|                   | Ammonia as N | 0.55              | <4.9                | U                    |              | 4.9             |   | 09/14/2017        | 10:31             | LB90066 |



GENCHEM  
- 5a -  
MATRIX SPIKE SUMMARY

client: LB90066      level: low      sdg no.: LB90066  
contract:      lab code: CHEM      case no.: LB90066      sas no.: LB90066  
matrix: Solid      sample id: I5219-01      client id: FK-PS-01-015MS  
Percent Solids for Sample: 92.2      Spiked ID: I5219-01MS      Percent Solids for Spike Sample: 92.2

| 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               | 64.8             |   | 16.6             |   | 53.2           | 91            |      |   |



GENCHEM  
- 5a -  
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90066 level: low sdg no.: LB90066  
contract: lab code: CHEM case no.: LB90066 sas no.: LB90066  
matrix: Solid sample id: I5219-01 client id: FK-PS-01-015MSD  
Percent Solids for Sample: 92.2 Spiked ID: I5219-01MSD Percent Solids for Spike Sample: 92.2

| 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               | 60.9          |   | 16.6             |   | 52.7           | 84            |      |   |

# GENCHEM

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## DUPLICATE SAMPLE SUMMARY

**Client:** LB90066      **Level:** LOW      **SDG No.:** LB90066  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB90066      **SAS No.:** LB90066  
**Matrix:** Solid      **Sample ID:** I5219-01      **Client ID:** FK-PS-01-015DUP  
**Percent Solids for Sample:** 92.2      **Duplicate ID** I5219-01DUP      **Percent Solids for Spike Sample:** 92.2

| Analyte      | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|--------------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Ammonia as N | mg/Kg | 20                  | 16.6             |   | 14.9                |   | 11  |      |   |

# GENCHEM

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## DUPLICATE SAMPLE SUMMARY

**Client:** LB90066      **Level:** LOW      **SDG No.:** LB90066  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB90066      **SAS No.:** LB90066  
**Matrix:** Solid      **Sample ID:** I5219-01MS      **Client ID:** FK-PS-01-015MSD  
**Percent Solids for Sample:** 92.2      **Duplicate ID** I5219-01MSD      **Percent Solids for Spike Sample:** 92.2

| Analyte      | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|--------------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Ammonia as N | mg/Kg | 20                  | 64.8             |   | 60.9                |   | 6   |      |   |



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90066

SDG No.: LB90066

Contract:

Lab Code: CHEM

Case No.: LB90066

SAS No.: LB90066

| Analyte                    | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|----------------------------|-------|------------|--------|---|---------------|----------------------|---|
| PB102321BS<br>Ammonia as N | mg/Kg | 48.5       | 44.9   |   | 92.6          | 80 - 120             |   |