

## Daily Analysis Runlog For Sequence/QC Batch ID # LB91014

|               |             |                                 |        |                |         |        |
|---------------|-------------|---------------------------------|--------|----------------|---------|--------|
| Review By     |             | Review On                       |        |                |         |        |
| SubDirectory  |             | LB91014                         |        | Test : Ammonia |         |        |
| STD. NAME     |             | STD REF.#                       |        |                |         |        |
| ICAL Standard |             | wp58981                         |        |                |         |        |
| ICV Standard  |             | WP58983                         |        |                |         |        |
| CCV Standard  |             | WP58982                         |        |                |         |        |
| ICSA Standard |             | N/A                             |        |                |         |        |
| CRI Standard  |             | N/A                             |        |                |         |        |
| LCS Standard  |             | N/A                             |        |                |         |        |
| Chk Standard  |             | WP58272,WP58041,WP57031,WP58040 |        |                |         |        |
| Sr#           | SampleId    | ClientID                        | QcType | Date           | Comment | Status |
| 1             | 0.1PPM      | 0.1PPM                          | CAL1   | 10/23/17 10:34 |         | OK     |
| 2             | 0.2PPM      | 0.2PPM                          | CAL2   | 10/23/17 10:34 |         | OK     |
| 3             | 0.4PPM      | 0.4PPM                          | CAL3   | 10/23/17 10:34 |         | OK     |
| 4             | 1.0PPM      | 1.0PPM                          | CAL4   | 10/23/17 10:34 |         | OK     |
| 5             | 1.3PPM      | 1.3PPM                          | CAL5   | 10/23/17 10:34 |         | OK     |
| 6             | 2.0PPM      | 2.0PPM                          | CAL6   | 10/23/17 10:34 |         | OK     |
| 7             | ICV1        | ICV1                            | ICV    | 10/23/17 11:04 |         | OK     |
| 8             | ICB1        | ICB1                            | ICB    | 10/23/17 11:04 |         | OK     |
| 9             | CCV1        | CCV1                            | CCV    | 10/23/17 11:04 |         | OK     |
| 10            | CCB1        | CCB1                            | CCB    | 10/23/17 11:04 |         | OK     |
| 11            | PB103496BL  | PB103496BL                      | MB     | 10/23/17 11:04 |         | OK     |
| 12            | PB103496BS  | PB103496BS                      | LCS    | 10/23/17 11:04 |         | OK     |
| 13            | I6010-01    | FK-PS-01-018                    | SAM    | 10/23/17 11:04 |         | OK     |
| 14            | I6010-01DUP | FK-PS-01-018DUP                 | DUP    | 10/23/17 11:04 |         | OK     |
| 15            | I6010-01MS  | FK-PS-01-018MS                  | MS     | 10/23/17 11:04 |         | OK     |
| 16            | I6010-01MSD | FK-PS-01-018MSD                 | MSD    | 10/23/17 11:04 |         | OK     |
| 17            | I6013-01    | FK-PS-01-019                    | SAM    | 10/23/17 11:04 |         | OK     |
| 18            | CCV2        | CCV2                            | CCV    | 10/23/17 11:04 |         | OK     |
| 19            | CCB2        | CCB2                            | CCB    | 10/23/17 11:09 |         | OK     |



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## Report of Analysis

|                   |              |                 |                        |
|-------------------|--------------|-----------------|------------------------|
| Client:           |              | Date Collected: | 10/18/2017 12:00:00 AM |
| Project:          | LB91014      | Date Received:  | 10/19/2017 12:00:00 AM |
| Client Sample ID: | FK-PS-01-018 | SDG No.:        | LB91014                |
| Lab Sample ID:    | I6010-01     | Matrix:         | Solid                  |
| Level (low/med):  | low          | % Solid:        | 91.4                   |

| Cas | Parameter    | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|-----|--------------|-------|------|----|-----|-----|------------|-------|------------|------------|------------|
|     | Ammonia as N | 8.1   |      | 1  | 1.8 |     | 5.3        | mg/Kg | 10/20/2017 | 10/23/2017 | SM4500-NH3 |



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## Report of Analysis

|                   |              |                 |                        |
|-------------------|--------------|-----------------|------------------------|
| Client:           |              | Date Collected: | 10/19/2017 12:00:00 AM |
| Project:          | LB91014      | Date Received:  | 10/19/2017 12:00:00 AM |
| Client Sample ID: | FK-PS-01-019 | SDG No.:        | LB91014                |
| Lab Sample ID:    | I6013-01     | Matrix:         | Solid                  |
| Level (low/med):  | low          | % Solid:        | 91.7                   |

| Cas | Parameter    | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|-----|--------------|-------|------|----|-----|-----|------------|-------|------------|------------|------------|
|     | Ammonia as N | 8.5   |      | 1  | 1.8 |     | 5.2        | mg/Kg | 10/20/2017 | 10/23/2017 | SM4500-NH3 |



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## Report of Analysis

|                   |              |                 |                        |
|-------------------|--------------|-----------------|------------------------|
| Client:           |              | Date Collected: | 10/19/2017 12:00:00 AM |
| Project:          | LB91014      | Date Received:  | 10/19/2017 12:00:00 AM |
| Client Sample ID: | FK-PS-01-019 | SDG No.:        | LB91014                |
| Lab Sample ID:    | I6013-01     | Matrix:         | Solid                  |
| Level (low/med):  | low          | % Solid:        | 91.7                   |

| 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: LB91014

SDG No.: LB91014

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

Case No.: LB91014

SAS No.: LB91014

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 |
|-----------|--------------|----------------|------------|---------------|----------|---------------------------|---|------------------|------------------|---------------|
| ICV1      | Ammonia as N | 0.97           | 1          | 97            | 0        | 90 - 110                  |   | 10/23/2017       | 11:04            | LB91014       |

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## GENCHEM

- 2a -

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB91014

SDG No.: LB91014

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

Case No.: LB91014

SAS No.: LB91014

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 | 0.96           | 1          | 96            | 0        | 90 - 110                  |   | 10/23/2017       | 11:04            | LB91014       |
| CCV2      | Ammonia as N | 0.91           | 1          | 91            | 0        | 90 - 110                  |   | 10/23/2017       | 11:04            | LB91014       |

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GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91014

SDG No.: LB91014

Contract:                     

Lab Code: CHEM

Case No.: LB91014

SAS No.: LB91014

| 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 | 0.027          | +/-0.1              | U            |     |      | 0.1 | 10/23/2017       | 11:04            | LB91014       |



**GENCHEM**

- 3a -

### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB91014

SDG No.: LB91014

**Contract:**

Lab Code: CHEM

**Case No.:** LB91014

**SAS No.:** LB91014

| 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 | 0.023          | +/-0.1              | U            |     |      | 0.1 | 10/23/2017       | 11:04            | LB91014       |
| CCB2      | Ammonia as N | 0.033          | +/-0.1              | U            |     |      | 0.1 | 10/23/2017       | 11:09            | LB91014       |





GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91014

SDG No.: LB91014

Contract: Lab Code: CHEM

Case No.: LB91014

SAS No.: LB91014

| 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:** LB91014

**SDG No.:** LB91014

**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>PB103496BL</b> | Ammonia as N | <b>SOLID</b><br>2.8 | <5                  | Batch Number:<br>J |              | <b>PB103496</b><br>5 |   | <b>Prep Date:</b><br>10/23/2017 | <b>10/20/2017</b><br>11:04 | LB91014 |



GENCHEM  
- 5a -  
MATRIX SPIKE SUMMARY

client: LB91014 level: low sdg no.: LB91014  
contract: lab code: CHEM case no.: LB91014 sas no.: LB91014  
matrix: Solid sample id: I6010-01 client id: FK-PS-01-018MS  
Percent Solids for Sample: 91.4 Spiked ID: I6010-01MS Percent Solids for Spike Sample: 91.4

| 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               | 53.1             |   | 8.1              |   | 53.6           | 84            |      |   |



GENCHEM  
- 5a -  
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91014 level: low sdg no.: LB91014  
contract: lab code: CHEM case no.: LB91014 sas no.: LB91014  
matrix: Solid sample id: I6010-01 client id: FK-PS-01-018MSD  
Percent Solids for Sample: 91.4 Spiked ID: I6010-01MSD Percent Solids for Spike Sample: 91.4

| 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               | 55.5          |   | 8.1              |   | 53.1           | 89            |      |   |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB91014      **Level:** LOW      **SDG No.:** LB91014  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB91014      **SAS No.:** LB91014  
**Matrix:** Solid      **Sample ID:** I6010-01      **Client ID:** FK-PS-01-018DUP  
**Percent Solids for Sample:** 91.4      **Duplicate ID** I6010-01DUP      **Percent Solids for Spike Sample:** 91.4

| Analyte      | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|--------------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Ammonia as N | mg/Kg | 20                  | 8.1              |   | 7.8                 |   | 4   |      |   |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB91014      **Level:** LOW      **SDG No.:** LB91014  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB91014      **SAS No.:** LB91014  
**Matrix:** Solid      **Sample ID:** I6010-01MS      **Client ID:** FK-PS-01-018MSD  
**Percent Solids for Sample:** 91.4      **Duplicate ID** I6010-01MSD      **Percent Solids for Spike Sample:** 91.4

| Analyte      | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|--------------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Ammonia as N | mg/Kg | 20                  | 53.1             |   | 55.5                |   | 4   |      |   |



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91014

SDG No.: LB91014

Contract:

Lab Code: CHEM

Case No.: LB91014

SAS No.: LB91014

| Analyte                    | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|----------------------------|-------|------------|--------|---|---------------|----------------------|---|
| PB103496BS<br>Ammonia as N | mg/Kg | 48.5       | 45.1   |   | 93            | 80 - 120             |   |