

## Daily Analysis Runlog For Sequence/QC Batch ID # LB91236

| Review By     |            | Review On                       |        |                |         |        |
|---------------|------------|---------------------------------|--------|----------------|---------|--------|
| SubDirectory  |            | LB91236                         |        | Test : Ammonia |         |        |
| STD. NAME     |            | STD REF.#                       |        |                |         |        |
| ICAL Standard |            | WP59239                         |        |                |         |        |
| ICV Standard  |            | WP59241                         |        |                |         |        |
| CCV Standard  |            | WP59240                         |        |                |         |        |
| ICSA Standard |            | N/A                             |        |                |         |        |
| CRI Standard  |            | N/A                             |        |                |         |        |
| LCS Standard  |            | WP59180                         |        |                |         |        |
| Chk Standard  |            | WP57031,WP59238,WP59101,WP59101 |        |                |         |        |
| Sr#           | SampleID   | ClientID                        | QcType | Date           | Comment | Status |
| 1             | 0.1PPM     | 0.1PPM                          | CAL1   | 10/31/17 10:10 |         |        |
| 2             | 0.2PPM     | 0.2PPM                          | CAL2   | 10/31/17 10:10 |         |        |
| 3             | 0.4PPM     | 0.4PPM                          | CAL3   | 10/31/17 10:10 |         |        |
| 4             | 1.0PPM     | 1.0PPM                          | CAL4   | 10/31/17 10:11 |         |        |
| 5             | 1.3PPM     | 1.3PPM                          | CAL5   | 10/31/17 10:11 |         |        |
| 6             | 2.0PPM     | 2.0PPM                          | CAL6   | 10/31/17 10:11 |         |        |
| 7             | ICV1       | ICV1                            | ICV    | 10/31/17 11:14 |         |        |
| 8             | ICB1       | ICB1                            | ICB    | 10/31/17 11:14 |         |        |
| 9             | CCV1       | CCV1                            | CCV    | 10/31/17 11:14 |         |        |
| 10            | CCB1       | CCB1                            | CCB    | 10/31/17 11:14 |         |        |
| 11            | PB103766BL | PB103766BL                      | MB     | 10/31/17 11:14 |         |        |
| 12            | PB103766BS | PB103766BS                      | LCS    | 10/31/17 11:14 |         |        |
| 13            | DOC-1      | DOC-1                           | SAM    | 10/31/17 11:15 |         |        |
| 14            | DOC-2      | DOC-2                           | SAM    | 10/31/17 11:15 |         |        |
| 15            | DOC-3      | DOC-3                           | SAM    | 10/31/17 11:25 |         |        |
| 16            | DOC-4      | DOC-4                           | SAM    | 10/31/17 11:25 |         |        |
| 17            | I6179-02   | SW16A                           | SAM    | 10/31/17 11:25 |         |        |
| 18            | I6179-03   | SW13                            | SAM    | 10/31/17 11:25 |         |        |
| 19            | I6179-04   | SW12A                           | SAM    | 10/31/17 11:25 |         |        |
| 20            | I6179-05   | SW3A                            | SAM    | 10/31/17 11:25 |         |        |
| 21            | CCV2       | CCV2                            | CCV    | 10/31/17 11:36 |         |        |

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|               |             |                                 |     |                |  |  |
|---------------|-------------|---------------------------------|-----|----------------|--|--|
| Review By     |             | Review On                       |     |                |  |  |
| SubDirectory  |             | LB91236                         |     | Test : Ammonia |  |  |
| STD. NAME     |             | STD REF.#                       |     |                |  |  |
| ICAL Standard |             | WP59239                         |     |                |  |  |
| ICV Standard  |             | WP59241                         |     |                |  |  |
| CCV Standard  |             | WP59240                         |     |                |  |  |
| ICSA Standard |             | N/A                             |     |                |  |  |
| CRI Standard  |             | N/A                             |     |                |  |  |
| LCS Standard  |             | WP59180                         |     |                |  |  |
| Chk Standard  |             | WP57031,WP59238,WP59101,WP59101 |     |                |  |  |
| 22            | CCB2        | CCB2                            | CCB | 10/31/17 11:36 |  |  |
| 23            | PB103767BL  | PB103767BL                      | MB  | 10/31/17 11:36 |  |  |
| 24            | PB103767BS  | PB103767BS                      | LCS | 10/31/17 11:36 |  |  |
| 25            | I6210-01MS  | FK-PS-01-020MS                  | MS  | 10/31/17 11:36 |  |  |
| 26            | I6210-01MSD | FK-PS-01-020MSD                 | MSD | 10/31/17 11:36 |  |  |
| 27            | I6210-01    | FK-PS-01-020                    | SAM | 10/31/17 11:46 |  |  |
| 28            | I6210-01DUP | FK-PS-01-020DUP                 | DUP | 10/31/17 11:47 |  |  |
| 29            | I6213-01    | FK-PS-01-019                    | SAM | 10/31/17 11:47 |  |  |
| 30            | DOC-SOIL-1  | DOC-SOIL-1                      | SAM | 10/31/17 11:47 |  |  |
| 31            | DOC-SOIL-2  | DOC-SOIL-2                      | SAM | 10/31/17 11:47 |  |  |
| 32            | CCV3        | CCV3                            | CCV | 10/31/17 11:47 |  |  |
| 33            | CCB3        | CCB3                            | CCB | 10/31/17 11:47 |  |  |
| 34            | DOC-SOIL-3  | DOC-SOIL-3                      | SAM | 10/31/17 11:47 |  |  |
| 35            | DOC-SOIL-4  | DOC-SOIL-4                      | SAM | 10/31/17 11:47 |  |  |
| 36            | CCV4        | CCV4                            | CCV | 10/31/17 11:47 |  |  |
| 37            | CCB4        | CCB4                            | CCB | 10/31/17 11:47 |  |  |
| 38            | I6179-01    | SWL-17                          | SAM | 10/31/17 11:57 |  |  |
| 39            | I6179-01DUP | SWL-17DUP                       | DUP | 10/31/17 11:57 |  |  |
| 40            | I6179-01MS  | SWL-17MS                        | MS  | 10/31/17 11:57 |  |  |
| 41            | I6179-01MSD | SWL-17MSD                       | MSD | 10/31/17 11:59 |  |  |
| 42            | I6179-06    | SW11                            | SAM | 10/31/17 12:11 |  |  |
| 43            | I6179-07    | SW6                             | SAM | 10/31/17 12:11 |  |  |

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|---------------|----------|---------------------------------|-----|----------------|--|--|
| Review By     |          | Review On                       |     |                |  |  |
| SubDirectory  |          | LB91236                         |     | Test : Ammonia |  |  |
| STD. NAME     |          | STD REF.#                       |     |                |  |  |
| ICAL Standard |          | WP59239                         |     |                |  |  |
| ICV Standard  |          | WP59241                         |     |                |  |  |
| CCV Standard  |          | WP59240                         |     |                |  |  |
| ICSA Standard |          | N/A                             |     |                |  |  |
| CRI Standard  |          | N/A                             |     |                |  |  |
| LCS Standard  |          | WP59180                         |     |                |  |  |
| Chk Standard  |          | WP57031,WP59238,WP59101,WP59101 |     |                |  |  |
| 44            | I6179-08 | SW7                             | SAM | 10/31/17 12:11 |  |  |
| 45            | I6179-09 | SW5                             | SAM | 10/31/17 12:11 |  |  |
| 46            | I6179-10 | SW9                             | SAM | 10/31/17 12:11 |  |  |
| 47            | I6179-11 | SW14                            | SAM | 10/31/17 12:11 |  |  |
| 48            | CCV5     | CCV5                            | CCV | 10/31/17 12:11 |  |  |
| 49            | CCB5     | CCB5                            | CCB | 10/31/17 12:11 |  |  |



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## Report of Analysis

|                   |         |                 |         |
|-------------------|---------|-----------------|---------|
| Client:           |         | Date Collected: |         |
| Project:          | LB91236 | Date Received:  |         |
| Client Sample ID: | DOC-1   | SDG No.:        | LB91236 |
| Lab Sample ID:    | DOC-1   | Matrix:         | Solid   |
| Level (low/med):  | low     | % Solid:        | 100     |

| Cas | Parameter    | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met.   |
|-----|--------------|-------|------|----|-------|-----|------------|-------|-----------|------------|------------|
|     | Ammonia as N | 0.92  |      | 1  | 0.034 |     | 0.1        | mg/Kg |           | 10/31/2017 | SM4500-NH3 |



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## Report of Analysis

|                   |         |                 |         |
|-------------------|---------|-----------------|---------|
| Client:           |         | Date Collected: |         |
| Project:          | LB91236 | Date Received:  |         |
| Client Sample ID: | DOC-2   | SDG No.:        | LB91236 |
| Lab Sample ID:    | DOC-2   | Matrix:         | Solid   |
| Level (low/med):  | low     | % Solid:        | 100     |

| Cas | Parameter    | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met.   |
|-----|--------------|-------|------|----|-------|-----|------------|-------|-----------|------------|------------|
|     | Ammonia as N | 0.94  |      | 1  | 0.034 |     | 0.1        | mg/Kg |           | 10/31/2017 | SM4500-NH3 |



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|                   |         |                 |         |
|-------------------|---------|-----------------|---------|
| Client:           |         | Date Collected: |         |
| Project:          | LB91236 | Date Received:  |         |
| Client Sample ID: | DOC-3   | SDG No.:        | LB91236 |
| Lab Sample ID:    | DOC-3   | Matrix:         | Solid   |
| Level (low/med):  | low     | % Solid:        | 100     |

| Cas | Parameter    | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met.   |
|-----|--------------|-------|------|----|-------|-----|------------|-------|-----------|------------|------------|
|     | Ammonia as N | 0.95  |      | 1  | 0.034 |     | 0.1        | mg/Kg |           | 10/31/2017 | SM4500-NH3 |



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## Report of Analysis

|                   |         |                 |         |
|-------------------|---------|-----------------|---------|
| Client:           |         | Date Collected: |         |
| Project:          | LB91236 | Date Received:  |         |
| Client Sample ID: | DOC-4   | SDG No.:        | LB91236 |
| Lab Sample ID:    | DOC-4   | Matrix:         | Solid   |
| Level (low/med):  | low     | % Solid:        | 100     |

| Cas | Parameter    | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met.   |
|-----|--------------|-------|------|----|-------|-----|------------|-------|-----------|------------|------------|
|     | Ammonia as N | 0.91  |      | 1  | 0.034 |     | 0.1        | mg/Kg |           | 10/31/2017 | SM4500-NH3 |



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|                   |            |                 |         |
|-------------------|------------|-----------------|---------|
| Client:           |            | Date Collected: |         |
| Project:          | LB91236    | Date Received:  |         |
| Client Sample ID: | DOC-SOIL-1 | SDG No.:        | LB91236 |
| Lab Sample ID:    | DOC-SOIL-1 | Matrix:         | Solid   |
| Level (low/med):  | low        | % Solid:        | 100     |

| Cas | Parameter    | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met.   |
|-----|--------------|-------|------|----|-------|-----|------------|-------|-----------|------------|------------|
|     | Ammonia as N | 0.9   |      | 1  | 0.034 |     | 0.1        | mg/Kg |           | 10/31/2017 | SM4500-NH3 |



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|-------------------|------------|-----------------|---------|
| Client:           |            | Date Collected: |         |
| Project:          | LB91236    | Date Received:  |         |
| Client Sample ID: | DOC-SOIL-2 | SDG No.:        | LB91236 |
| Lab Sample ID:    | DOC-SOIL-2 | Matrix:         | Solid   |
| Level (low/med):  | low        | % Solid:        | 100     |

| Cas | Parameter    | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met.   |
|-----|--------------|-------|------|----|-------|-----|------------|-------|-----------|------------|------------|
|     | Ammonia as N | 0.97  |      | 1  | 0.034 |     | 0.1        | mg/Kg |           | 10/31/2017 | SM4500-NH3 |



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| Client:           |            | Date Collected: |         |
| Project:          | LB91236    | Date Received:  |         |
| Client Sample ID: | DOC-SOIL-3 | SDG No.:        | LB91236 |
| Lab Sample ID:    | DOC-SOIL-3 | Matrix:         | Solid   |
| Level (low/med):  | low        | % Solid:        | 100     |

| Cas | Parameter    | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met.   |
|-----|--------------|-------|------|----|-------|-----|------------|-------|-----------|------------|------------|
|     | Ammonia as N | 0.95  |      | 1  | 0.034 |     | 0.1        | mg/Kg |           | 10/31/2017 | SM4500-NH3 |



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| Client:           |            | Date Collected: |         |
| Project:          | LB91236    | Date Received:  |         |
| Client Sample ID: | DOC-SOIL-4 | SDG No.:        | LB91236 |
| Lab Sample ID:    | DOC-SOIL-4 | Matrix:         | Solid   |
| Level (low/med):  | low        | % Solid:        | 100     |

| Cas | Parameter    | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met.   |
|-----|--------------|-------|------|----|-------|-----|------------|-------|-----------|------------|------------|
|     | Ammonia as N | 0.93  |      | 1  | 0.034 |     | 0.1        | mg/Kg |           | 10/31/2017 | SM4500-NH3 |



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|                   |          |                 |                        |
|-------------------|----------|-----------------|------------------------|
| Client:           |          | Date Collected: | 10/26/2017 12:00:00 AM |
| Project:          | LB91236  | Date Received:  | 10/26/2017 12:00:00 AM |
| Client Sample ID: | SWL-17   | SDG No.:        | LB91236                |
| Lab Sample ID:    | I6179-01 | 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 | 0.28  |      | 1  | 0.034 |     | 0.1        | mg/L  | 10/28/2017 | 10/31/2017 | SM4500-NH3 |



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|-------------------|----------|-----------------|------------------------|
| Client:           |          | Date Collected: | 10/26/2017 12:00:00 AM |
| Project:          | LB91236  | Date Received:  | 10/26/2017 12:00:00 AM |
| Client Sample ID: | SW16A    | SDG No.:        | LB91236                |
| Lab Sample ID:    | I6179-02 | 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 | 0.31  |      | 1  | 0.034 |     | 0.1        | mg/L  | 10/28/2017 | 10/31/2017 | SM4500-NH3 |



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| Client:           |          | Date Collected: | 10/26/2017 12:00:00 AM |
| Project:          | LB91236  | Date Received:  | 10/26/2017 12:00:00 AM |
| Client Sample ID: | SW13     | SDG No.:        | LB91236                |
| Lab Sample ID:    | I6179-03 | 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 | 0.18  |      | 1  | 0.034 |     | 0.1        | mg/L  | 10/28/2017 | 10/31/2017 | SM4500-NH3 |



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|-------------------|----------|-----------------|------------------------|
| Client:           |          | Date Collected: | 10/26/2017 12:00:00 AM |
| Project:          | LB91236  | Date Received:  | 10/26/2017 12:00:00 AM |
| Client Sample ID: | SW12A    | SDG No.:        | LB91236                |
| Lab Sample ID:    | I6179-04 | 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 | 0.23  |      | 1  | 0.034 |     | 0.1        | mg/L  | 10/28/2017 | 10/31/2017 | SM4500-NH3 |



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| Client:           |          | Date Collected: | 10/26/2017 12:00:00 AM |
| Project:          | LB91236  | Date Received:  | 10/26/2017 12:00:00 AM |
| Client Sample ID: | SW3A     | SDG No.:        | LB91236                |
| Lab Sample ID:    | I6179-05 | 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  | 10/28/2017 | 10/31/2017 | SM4500-NH3 |



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| Client:           |          | Date Collected: | 10/26/2017 12:00:00 AM |
| Project:          | LB91236  | Date Received:  | 10/26/2017 12:00:00 AM |
| Client Sample ID: | SW11     | SDG No.:        | LB91236                |
| Lab Sample ID:    | I6179-06 | 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 | 0.16  |      | 1  | 0.034 |     | 0.1        | mg/L  | 10/28/2017 | 10/31/2017 | SM4500-NH3 |



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| Client:           |          | Date Collected: | 10/26/2017 12:00:00 AM |
| Project:          | LB91236  | Date Received:  | 10/26/2017 12:00:00 AM |
| Client Sample ID: | SW6      | SDG No.:        | LB91236                |
| Lab Sample ID:    | I6179-07 | 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 | 0.18  |      | 1  | 0.034 |     | 0.1        | mg/L  | 10/28/2017 | 10/31/2017 | SM4500-NH3 |



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| Client:           |          | Date Collected: | 10/26/2017 12:00:00 AM |
| Project:          | LB91236  | Date Received:  | 10/26/2017 12:00:00 AM |
| Client Sample ID: | SW7      | SDG No.:        | LB91236                |
| Lab Sample ID:    | I6179-08 | 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 | 0.35  |      | 1  | 0.034 |     | 0.1        | mg/L  | 10/28/2017 | 10/31/2017 | SM4500-NH3 |



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| Client:           |          | Date Collected: | 10/26/2017 12:00:00 AM |
| Project:          | LB91236  | Date Received:  | 10/26/2017 12:00:00 AM |
| Client Sample ID: | SW5      | SDG No.:        | LB91236                |
| Lab Sample ID:    | I6179-09 | 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 | 0.1   |      | 1  | 0.034 |     | 0.1        | mg/L  | 10/28/2017 | 10/31/2017 | SM4500-NH3 |



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| Client:           |          | Date Collected: | 10/26/2017 12:00:00 AM |
| Project:          | LB91236  | Date Received:  | 10/26/2017 12:00:00 AM |
| Client Sample ID: | SW9      | SDG No.:        | LB91236                |
| Lab Sample ID:    | I6179-10 | 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 | 0.42  |      | 1  | 0.034 |     | 0.1        | mg/L  | 10/28/2017 | 10/31/2017 | SM4500-NH3 |



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| Client:           |          | Date Collected: | 10/26/2017 12:00:00 AM |
| Project:          | LB91236  | Date Received:  | 10/26/2017 12:00:00 AM |
| Client Sample ID: | SW14     | SDG No.:        | LB91236                |
| Lab Sample ID:    | I6179-11 | 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 | 0.24  |      | 1  | 0.034 |     | 0.1        | mg/L  | 10/28/2017 | 10/31/2017 | SM4500-NH3 |



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## Report of Analysis

|                   |              |                 |                        |
|-------------------|--------------|-----------------|------------------------|
| Client:           |              | Date Collected: | 10/27/2017 12:00:00 AM |
| Project:          | LB91236      | Date Received:  | 10/27/2017 12:00:00 AM |
| Client Sample ID: | FK-PS-01-020 | SDG No.:        | LB91236                |
| Lab Sample ID:    | I6210-01     | Matrix:         | Solid                  |
| Level (low/med):  | low          | % Solid:        | 90.9                   |

| Cas | Parameter    | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|-----|--------------|-------|------|----|-----|-----|------------|-------|------------|------------|------------|
|     | Ammonia as N | 68.1  |      | 1  | 1.8 |     | 5.3        | mg/Kg | 10/28/2017 | 10/31/2017 | SM4500-NH3 |



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## Report of Analysis

|                   |              |                 |                        |
|-------------------|--------------|-----------------|------------------------|
| Client:           |              | Date Collected: | 10/27/2017 12:00:00 AM |
| Project:          | LB91236      | Date Received:  | 10/27/2017 12:00:00 AM |
| Client Sample ID: | FK-PS-01-019 | SDG No.:        | LB91236                |
| Lab Sample ID:    | I6213-01     | Matrix:         | Solid                  |
| Level (low/med):  | low          | % Solid:        | 91                     |

| Cas | Parameter    | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|-----|--------------|-------|------|----|-----|-----|------------|-------|------------|------------|------------|
|     | Ammonia as N | 10.6  |      | 1  | 1.8 |     | 5.3        | mg/Kg | 10/28/2017 | 10/31/2017 | SM4500-NH3 |



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## Report of Analysis

|                   |              |                 |                        |
|-------------------|--------------|-----------------|------------------------|
| Client:           |              | Date Collected: | 10/27/2017 12:00:00 AM |
| Project:          | LB91236      | Date Received:  | 10/27/2017 12:00:00 AM |
| Client Sample ID: | FK-PS-01-019 | SDG No.:        | LB91236                |
| Lab Sample ID:    | I6213-01     | Matrix:         | Solid                  |
| Level (low/med):  | low          | % Solid:        | 91                     |

| 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: LB91236

SDG No.: LB91236

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

Case No.: LB91236

SAS No.: LB91236

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 |
|-----------|--------------|----------------|------------|---------------|----------|---------------------------|---|------------------|------------------|---------------|
| ICV1      | Ammonia as N | 0.99           | 1          | 99            | 0        | 90 - 110                  |   | 10/31/2017       | 11:14            | LB91236       |

---



## GENCHEM

- 2a -

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB91236

SDG No.: LB91236

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

Case No.: LB91236

SAS No.: LB91236

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 | 0.95           | 1          | 95            | 0        | 90 - 110                  |   | 10/31/2017       | 11:14            | LB91236       |
| CCV2      | Ammonia as N | 0.92           | 1          | 92            | 0        | 90 - 110                  |   | 10/31/2017       | 11:36            | LB91236       |
| CCV3      | Ammonia as N | 0.95           | 1          | 95            | 0        | 90 - 110                  |   | 10/31/2017       | 11:47            | LB91236       |
| CCV4      | Ammonia as N | 0.92           | 1          | 92            | 0        | 90 - 110                  |   | 10/31/2017       | 11:47            | LB91236       |
| CCV5      | Ammonia as N | 0.92           | 1          | 92            | 0        | 90 - 110                  |   | 10/31/2017       | 12:11            | LB91236       |



**GENCHEM**

- 3a -

### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB91236

SDG No.: LB91236

**Contract:**

Lab Code: CHEM

**Case No.:** LB91236

**SAS No.:** LB91236

| 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 | 0.023          | +/-0.1              | U            |     |      | 0.1 | 10/31/2017       | 11:14            | LB91236       |

| 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 | 0.025          | +/-0.1              | U            |     |      | 0.1 | 10/31/2017       | 11:14            | LB91236       |
| CCB2      | Ammonia as N | 0.033          | +/-0.1              | U            |     |      | 0.1 | 10/31/2017       | 11:36            | LB91236       |
| CCB3      | Ammonia as N | 0.03           | +/-0.1              | U            |     |      | 0.1 | 10/31/2017       | 11:47            | LB91236       |
| CCB4      | Ammonia as N | 0.037          | +/-0.1              | J            |     |      | 0.1 | 10/31/2017       | 11:47            | LB91236       |
| CCB5      | Ammonia as N | 0.031          | +/-0.1              | U            |     |      | 0.1 | 10/31/2017       | 12:11            | LB91236       |



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91236

SDG No.: LB91236

Contract: Lab Code: CHEM

Case No.: LB91236

SAS No.: LB91236

| 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:** LB91236

**SDG No.:** LB91236

**Instrument:** Konelab 20

| Sample ID  | Analyte      | Result<br>(mg/L)  | Acceptance<br>Limit | Conc<br>Qual  | LOD<br>mg/L  | CRQL<br>mg/L  | M | Analysis<br>Date | Analysis<br>Time | Run     |
|------------|--------------|-------------------|---------------------|---------------|--------------|---------------|---|------------------|------------------|---------|
| PB103766BL | Ammonia as N | WATER             |                     | Batch Number: |              | PB103766      |   | Prep Date:       | 10/28/2017       |         |
|            |              | 0.023             | <0.1                | U             |              | 0.1           |   | 10/31/2017       | 11:14            | LB91236 |
| 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     |
| PB103767BL | Ammonia as N | SOLID             |                     | Batch Number: |              | PB103767      |   | Prep Date:       | 10/28/2017       |         |
|            |              | 1.6               | <4.9                | U             |              | 4.9           |   | 10/31/2017       | 11:36            | LB91236 |



GENCHEM  
- 5a -  
MATRIX SPIKE SUMMARY

client: LB91236 level: low sdg no.: LB91236  
contract: lab code: CHEM case no.: LB91236 sas no.: LB91236  
matrix: WATER sample id: I6179-01 client id: SWL-17MS  
Percent Solids for Sample: 0 Spiked ID: I6179-01MS Percent Solids for Spike Sample: 0

| 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/L  | 75 - 125               | 1.1              |   | 0.28             |   | 1              | 82            |      |   |



GENCHEM  
- 5a -  
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91236 level: low sdg no.: LB91236  
contract: lab code: CHEM case no.: LB91236 sas no.: LB91236  
matrix: WATER sample id: I6179-01 client id: SWL-17MSD  
Percent Solids for Sample: 0 Spiked ID: I6179-01MSD Percent Solids for Spike Sample: 0

| 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/L  | 75 - 125               | 1.1           |   | 0.28             |   | 1              | 82            |      |   |



GENCHEM  
- 5a -  
MATRIX SPIKE SUMMARY

client: LB91236 level: low sdg no.: LB91236  
contract: lab code: CHEM case no.: LB91236 sas no.: LB91236  
matrix: Solid sample id: I6210-01 client id: FK-PS-01-020MS  
Percent Solids for Sample: 90.9 Spiked ID: I6210-01MS Percent Solids for Spike Sample: 90.9

| 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               | 110              | OR | 68.1             |   | 53.9           | 78            |      |   |



GENCHEM  
- 5a -  
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91236 level: low sdg no.: LB91236  
contract: lab code: CHEM case no.: LB91236 sas no.: LB91236  
matrix: Solid sample id: I6210-01 client id: FK-PS-01-020MSD  
Percent Solids for Sample: 90.9 Spiked ID: I6210-01MSD Percent Solids for Spike Sample: 90.9

| 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               | 115           | OR | 68.1             |   | 53.4           | 88            |      |   |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB91236      **Level:** LOW      **SDG No.:** LB91236  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB91236      **SAS No.:** LB91236  
**Matrix:** WATER      **Sample ID:** I6179-01      **Client ID:** SWL-17DUP  
**Percent Solids for Sample:** 0      **Duplicate ID** I6179-01DUP      **Percent Solids for Spike Sample:** 0

| Analyte      | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|--------------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Ammonia as N | mg/L  | 20                  | 0.28             |   | 0.29                |   | 4   |      |   |



GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91236 Level: LOW SDG No.: LB91236  
Contract: \_\_\_\_\_ Lab Code: CHEM Case No.: LB91236 SAS No.: LB91236  
Matrix: WATER Sample ID: I6179-01MS Client ID: SWL-17MSD  
Percent Solids for Sample: 0 Duplicate ID I6179-01MSD Percent Solids for Spike Sample: 0

| Analyte      | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|--------------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Ammonia as N | mg/L  | 20                  | 1.1              |   | 1.1                 |   | 0   |      |   |

“A control limit of  $\pm 20\%$  RPD for each matrix applies for sample values greater than 10 times Detection Limit”

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB91236      **Level:** LOW      **SDG No.:** LB91236  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB91236      **SAS No.:** LB91236  
**Matrix:** Solid      **Sample ID:** I6210-01      **Client ID:** FK-PS-01-020DUP  
**Percent Solids for Sample:** 90.9      **Duplicate ID** I6210-01DUP      **Percent Solids for Spike Sample:** 90.9

| Analyte      | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|--------------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Ammonia as N | mg/Kg | 20                  | 68.1             |   | 67.1                |   | 1   |      |   |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB91236      **Level:** LOW      **SDG No.:** LB91236  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB91236      **SAS No.:** LB91236  
**Matrix:** Solid      **Sample ID:** I6210-01MS      **Client ID:** FK-PS-01-020MSD  
**Percent Solids for Sample:** 90.9      **Duplicate ID** I6210-01MSD      **Percent Solids for Spike Sample:** 90.9

| Analyte      | Units | Acceptance<br>Limit | Sample<br>Result | C  | Duplicate<br>Result | C  | RPD | Qual | M |
|--------------|-------|---------------------|------------------|----|---------------------|----|-----|------|---|
| Ammonia as N | mg/Kg | 20                  | 110              | OR | 115                 | OR | 4   |      |   |



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91236

SDG No.: LB91236

Contract:

Lab Code: CHEM

Case No.: LB91236

SAS No.: LB91236

| Analyte                    | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|----------------------------|-------|------------|--------|---|---------------|----------------------|---|
| PB103766BS<br>Ammonia as N | mg/L  | 1          | 0.92   |   | 92            | 80 - 120             |   |



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91236

SDG No.: LB91236

Contract:

Lab Code: CHEM

Case No.: LB91236

SAS No.: LB91236

| Analyte                    | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|----------------------------|-------|------------|--------|---|---------------|----------------------|---|
| PB103767BS<br>Ammonia as N | mg/Kg | 48.5       | 46.3   |   | 95.5          | 80 - 120             |   |