





## GENCHEM

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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86083

SDG No.: LB86083

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

Case No.: LB86083

SAS No.: LB86083

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      | Reactive Cyanide | 0.24           | 0.25       | 96            | 0        | 90 - 110                  |   | 02/28/2017       | 12:43            | LB86083       |
| CCV2      | Reactive Cyanide | 0.26           | 0.25       | 104           | 0        | 90 - 110                  |   | 02/28/2017       | 13:17            | LB86083       |



**GENCHEM**

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### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB86083

SDG No.: LB86083

**Contract:**

Lab Code: CHEM

**Case No.:** LB86083

**SAS No.:** LB86083

| 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      | Reactive Cyanide | 0.00052        | +/-0.005            | U            |     | 0.005 |   | 02/28/2017       | 12:43            | LB86083       |



**GENCHEM**

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### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB86083

SDG No.: LB86083

**Contract:**

Lab Code: CHEM

**Case No.:** LB86083

**SAS No.:** LB86083

| 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      | Reactive Cyanide | 0.00085        | +/-0.005            | U            |     | 0.005 |   | 02/28/2017       | 12:43            | LB86083       |
| CCB2      | Reactive Cyanide | -0.00016       | +/-0.005            | U            |     | 0.005 |   | 02/28/2017       | 13:17            | LB86083       |



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86083

SDG No.: LB86083

Contract: Lab Code: CHEM

Case No.: LB86083

SAS No.: LB86083

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



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## Report of Analysis

|                   |                     |                 |                       |
|-------------------|---------------------|-----------------|-----------------------|
| Client:           |                     | Date Collected: | 2/24/2017 12:00:00 AM |
| Project:          | LB86083             | Date Received:  | 2/24/2017 12:00:00 AM |
| Client Sample ID: | ROLL-OFF-15-50-COMP | SDG No.:        | LB86083               |
| Lab Sample ID:    | I1998-03            | Matrix:         | Solid                 |
| Level (low/med):  | low                 | % Solid:        | 86.7                  |

| Cas | Parameter        | Conc.  | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|-----|------------------|--------|------|----|-------|-----|------------|-------|------------|------------|----------|
|     | Reactive Cyanide | -0.011 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 02/27/2017 | 02/28/2017 | 9012B    |



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## Report of Analysis

|                   |                     |                 |                       |
|-------------------|---------------------|-----------------|-----------------------|
| Client:           |                     | Date Collected: | 2/24/2017 12:00:00 AM |
| Project:          | LB86083             | Date Received:  | 2/24/2017 12:00:00 AM |
| Client Sample ID: | ROLL-OFF-15-41-COMP | SDG No.:        | LB86083               |
| Lab Sample ID:    | I1998-06            | Matrix:         | Solid                 |
| Level (low/med):  | low                 | % Solid:        | 89.8                  |

| Cas | Parameter        | Conc.   | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|-----|------------------|---------|------|----|-------|-----|------------|-------|------------|------------|----------|
|     | Reactive Cyanide | -0.0082 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 02/27/2017 | 02/28/2017 | 9012B    |



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## Report of Analysis

|                   |                     |                 |                       |
|-------------------|---------------------|-----------------|-----------------------|
| Client:           |                     | Date Collected: | 2/24/2017 12:00:00 AM |
| Project:          | LB86083             | Date Received:  | 2/24/2017 12:00:00 AM |
| Client Sample ID: | ROLL-OFF-20-41-COMP | SDG No.:        | LB86083               |
| Lab Sample ID:    | I1998-09            | Matrix:         | Solid                 |
| Level (low/med):  | low                 | % Solid:        | 80.2                  |

| Cas | Parameter        | Conc.   | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|-----|------------------|---------|------|----|-------|-----|------------|-------|------------|------------|----------|
|     | Reactive Cyanide | -0.0056 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 02/27/2017 | 02/28/2017 | 9012B    |



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## Report of Analysis

|                   |                     |                 |                       |
|-------------------|---------------------|-----------------|-----------------------|
| Client:           |                     | Date Collected: | 2/24/2017 12:00:00 AM |
| Project:          | LB86083             | Date Received:  | 2/24/2017 12:00:00 AM |
| Client Sample ID: | ROLL-OFF-20-41-COMP | SDG No.:        | LB86083               |
| Lab Sample ID:    | I1998-12            | Matrix:         | Solid                 |
| Level (low/med):  | low                 | % Solid:        | 88.8                  |

| Cas | Parameter        | Conc.  | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|-----|------------------|--------|------|----|-------|-----|------------|-------|------------|------------|----------|
|     | Reactive Cyanide | -0.013 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 02/27/2017 | 02/28/2017 | 9012B    |



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## Report of Analysis

|                   |               |                 |                       |
|-------------------|---------------|-----------------|-----------------------|
| Client:           |               | Date Collected: | 2/24/2017 12:00:00 AM |
| Project:          | LB86083       | Date Received:  | 2/24/2017 12:00:00 AM |
| Client Sample ID: | SP-NORTH(0-2) | SDG No.:        | LB86083               |
| Lab Sample ID:    | I2000-03      | Matrix:         | Solid                 |
| Level (low/med):  | low           | % Solid:        | 100                   |

| Cas | Parameter        | Conc.   | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|-----|------------------|---------|------|----|-------|-----|------------|-------|------------|------------|----------|
|     | Reactive Cyanide | -0.0078 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 02/27/2017 | 02/28/2017 | 9012B    |



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## Report of Analysis

|                   |               |                 |                       |
|-------------------|---------------|-----------------|-----------------------|
| Client:           |               | Date Collected: | 2/24/2017 12:00:00 AM |
| Project:          | LB86083       | Date Received:  | 2/24/2017 12:00:00 AM |
| Client Sample ID: | SP-SOUTH(0-2) | SDG No.:        | LB86083               |
| Lab Sample ID:    | I2000-06      | Matrix:         | Solid                 |
| Level (low/med):  | low           | % Solid:        | 100                   |

| Cas | Parameter        | Conc.  | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|-----|------------------|--------|------|----|-------|-----|------------|-------|------------|------------|----------|
|     | Reactive Cyanide | -0.009 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 02/27/2017 | 02/28/2017 | 9012B    |



## Report of Analysis

|                   |               |                 |                       |
|-------------------|---------------|-----------------|-----------------------|
| Client:           |               | Date Collected: | 2/24/2017 12:00:00 AM |
| Project:          | LB86083       | Date Received:  | 2/24/2017 12:00:00 AM |
| Client Sample ID: | SP-SOUTH(0-2) | SDG No.:        | LB86083               |
| Lab Sample ID:    | I2000-06      | Matrix:         | Solid                 |
| Level (low/med):  | low           | % Solid:        | 100                   |

| 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



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PREPARATION BLANK SUMMARY

Client: LB86083

SDG No.: LB86083

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     |
|-----------|------------------|-------------------|---------------------|---------------|--------------|---------------|---|------------------|------------------|---------|
| PB97206BL |                  | SOLID             |                     | Batch Number: |              | PB97206       |   | Prep Date:       | 02/27/2017       |         |
|           | Reactive Cyanide | 0.0033            | <0.05               | U             |              | 0.05          |   | 02/28/2017       | 12:43            | LB86083 |

# GENCHEM

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## DUPLICATE SAMPLE SUMMARY

**Client:** LB86083      **Level:** LOW      **SDG No.:** LB86083  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB86083      **SAS No.:** LB86083  
**Matrix:** Solid      **Sample ID:** I1998-03      **Client ID:** ROLL-OFF-15-50-COMPDUP  
**Percent Solids for Sample:** 86.7      **Duplicate ID** I1998-03DUP      **Percent Solids for Spike Sample:** 86.7

| Analyte          | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|------------------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Reactive Cyanide | mg/Kg | 20                  | 0.025            | U | -0.011              | U |     |      |   |