

**Daily Analysis Runlog For Sequence/QC Batch ID # LB92517**

|               |             |                                                         |        |                         |         |        |
|---------------|-------------|---------------------------------------------------------|--------|-------------------------|---------|--------|
| Review By     |             | Review On                                               |        |                         |         |        |
| SubDirectory  |             | LB92517                                                 |        | Test : Reactive Cyanide |         |        |
| STD. NAME     |             | STD REF.#                                               |        |                         |         |        |
| ICAL Standard |             | WP60770,WP60771,WP60772,WP60773,WP60774,WP60775,WP60776 |        |                         |         |        |
| ICV Standard  |             | WP60778                                                 |        |                         |         |        |
| CCV Standard  |             | WP60777                                                 |        |                         |         |        |
| ICSA Standard |             | N/A                                                     |        |                         |         |        |
| CRI Standard  |             | N/A                                                     |        |                         |         |        |
| LCS Standard  |             | N/A                                                     |        |                         |         |        |
| Chk Standard  |             | WP60779,WP59958,WP60150                                 |        |                         |         |        |
| Sr#           | SampleID    | ClientID                                                | QcType | Date                    | Comment | Status |
| 1             | 0.0PPBCN    | 0.0PPBCN                                                | CAL1   | 01/08/18 09:41          |         | OK     |
| 2             | 5.0PPBCN    | 5.0PPBCN                                                | CAL2   | 01/08/18 09:41          |         | OK     |
| 3             | 10PPBCN     | 10PPBCN                                                 | CAL3   | 01/08/18 09:41          |         | OK     |
| 4             | 50PPBCN     | 50PPBCN                                                 | CAL4   | 01/08/18 09:41          |         | OK     |
| 5             | 100PPBCN    | 100PPBCN                                                | CAL5   | 01/08/18 09:41          |         | OK     |
| 6             | 250PPBCN    | 250PPBCN                                                | CAL6   | 01/08/18 09:41          |         | OK     |
| 7             | 500PPBCN    | 500PPBCN                                                | CAL7   | 01/08/18 09:41          |         | OK     |
| 8             | ICV1        | ICV1                                                    | ICV    | 01/08/18 15:19          |         | OK     |
| 9             | ICB1        | ICB1                                                    | ICB    | 01/08/18 15:19          |         | OK     |
| 10            | CCV1        | CCV1                                                    | CCV    | 01/08/18 15:19          |         | OK     |
| 11            | CCB1        | CCB1                                                    | CCB    | 01/08/18 15:19          |         | OK     |
| 12            | PB105517BL  | PB105517BL                                              | MB     | 01/08/18 15:19          |         | OK     |
| 13            | J1043-17    | SB-10-COMP                                              | SAM    | 01/08/18 15:19          |         | OK     |
| 14            | J1043-17DUP | SB-10-COMPDUP                                           | DUP    | 01/08/18 15:19          |         | OK     |
| 15            | J1043-18    | SB-20-COMP                                              | SAM    | 01/08/18 15:25          |         | OK     |
| 16            | J1043-19    | SB-09-COMP                                              | SAM    | 01/08/18 15:25          |         | OK     |
| 17            | J1043-20    | SB-05-COMP                                              | SAM    | 01/08/18 15:25          |         | OK     |
| 18            | J1043-21    | SB-04-COMP                                              | SAM    | 01/08/18 15:25          |         | OK     |
| 19            | J1043-22    | SB-01-COMP                                              | SAM    | 01/08/18 15:25          |         | OK     |
| 20            | J1043-23    | SB-02-COMP                                              | SAM    | 01/08/18 15:25          |         | OK     |
| 21            | J1043-24    | SB-03-COMP                                              | SAM    | 01/08/18 15:25          |         | OK     |



Instrument ID : KONELAB

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Daily Analysis Runlog For Sequence/QC Batch ID # LB92517**

|                  |      |                                                         |     |                |  |    |
|------------------|------|---------------------------------------------------------|-----|----------------|--|----|
| Review By        |      | Review On                                               |     |                |  |    |
| SubDirectory     |      | Test : Reactive Cyanide                                 |     |                |  |    |
| LB92517          |      |                                                         |     |                |  |    |
| <b>STD. NAME</b> |      | <b>STD REF.#</b>                                        |     |                |  |    |
| ICAL Standard    |      | WP60770,WP60771,WP60772,WP60773,WP60774,WP60775,WP60776 |     |                |  |    |
| ICV Standard     |      | WP60778                                                 |     |                |  |    |
| CCV Standard     |      | WP60777                                                 |     |                |  |    |
| ICSA Standard    |      | N/A                                                     |     |                |  |    |
| CRI Standard     |      | N/A                                                     |     |                |  |    |
| LCS Standard     |      | N/A                                                     |     |                |  |    |
| Chk Standard     |      | WP60779,WP59958,WP60150                                 |     |                |  |    |
| 22               | CCV2 | CCV2                                                    | CCV | 01/08/18 15:25 |  | OK |
| 23               | CCB2 | CCB2                                                    | CCB | 01/08/18 15:25 |  | OK |



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## Report of Analysis

|                   |            |                 |                      |
|-------------------|------------|-----------------|----------------------|
| Client:           |            | Date Collected: | 1/2/2018 12:00:00 AM |
| Project:          | LB92517    | Date Received:  | 1/5/2018 12:00:00 AM |
| Client Sample ID: | SB-10-COMP | SDG No.:        | LB92517              |
| Lab Sample ID:    | J1043-17   | 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 | 0.00042 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 01/08/2018 | 01/08/2018 | 9012B    |



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## Report of Analysis

|                   |            |                 |                      |
|-------------------|------------|-----------------|----------------------|
| Client:           |            | Date Collected: | 1/2/2018 12:00:00 AM |
| Project:          | LB92517    | Date Received:  | 1/5/2018 12:00:00 AM |
| Client Sample ID: | SB-20-COMP | SDG No.:        | LB92517              |
| Lab Sample ID:    | J1043-18   | 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 | -0.0013 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 01/08/2018 | 01/08/2018 | 9012B    |



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## Report of Analysis

|                   |            |                 |                      |
|-------------------|------------|-----------------|----------------------|
| Client:           |            | Date Collected: | 1/3/2018 12:00:00 AM |
| Project:          | LB92517    | Date Received:  | 1/5/2018 12:00:00 AM |
| Client Sample ID: | SB-09-COMP | SDG No.:        | LB92517              |
| Lab Sample ID:    | J1043-19   | 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 | 0.00063 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 01/08/2018 | 01/08/2018 | 9012B    |



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## Report of Analysis

|                   |            |                 |                      |
|-------------------|------------|-----------------|----------------------|
| Client:           |            | Date Collected: | 1/3/2018 12:00:00 AM |
| Project:          | LB92517    | Date Received:  | 1/5/2018 12:00:00 AM |
| Client Sample ID: | SB-05-COMP | SDG No.:        | LB92517              |
| Lab Sample ID:    | J1043-20   | 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 | 0.001 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 01/08/2018 | 01/08/2018 | 9012B    |



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|-------------------|------------|-----------------|----------------------|
| Client:           |            | Date Collected: | 1/3/2018 12:00:00 AM |
| Project:          | LB92517    | Date Received:  | 1/5/2018 12:00:00 AM |
| Client Sample ID: | SB-04-COMP | SDG No.:        | LB92517              |
| Lab Sample ID:    | J1043-21   | 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 | -0.00029 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 01/08/2018 | 01/08/2018 | 9012B    |



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## Report of Analysis

|                   |            |                 |                      |
|-------------------|------------|-----------------|----------------------|
| Client:           |            | Date Collected: | 1/3/2018 12:00:00 AM |
| Project:          | LB92517    | Date Received:  | 1/5/2018 12:00:00 AM |
| Client Sample ID: | SB-01-COMP | SDG No.:        | LB92517              |
| Lab Sample ID:    | J1043-22   | 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 | -0.00025 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 01/08/2018 | 01/08/2018 | 9012B    |



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## Report of Analysis

|                   |            |                 |                      |
|-------------------|------------|-----------------|----------------------|
| Client:           |            | Date Collected: | 1/3/2018 12:00:00 AM |
| Project:          | LB92517    | Date Received:  | 1/5/2018 12:00:00 AM |
| Client Sample ID: | SB-02-COMP | SDG No.:        | LB92517              |
| Lab Sample ID:    | J1043-23   | 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 | 0.00084 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 01/08/2018 | 01/08/2018 | 9012B    |



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## Report of Analysis

|                   |            |                 |                      |
|-------------------|------------|-----------------|----------------------|
| Client:           |            | Date Collected: | 1/3/2018 12:00:00 AM |
| Project:          | LB92517    | Date Received:  | 1/5/2018 12:00:00 AM |
| Client Sample ID: | SB-03-COMP | SDG No.:        | LB92517              |
| Lab Sample ID:    | J1043-24   | 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 | 0.0016 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 01/08/2018 | 01/08/2018 | 9012B    |



## Report of Analysis

|                   |            |                 |                      |
|-------------------|------------|-----------------|----------------------|
| Client:           |            | Date Collected: | 1/3/2018 12:00:00 AM |
| Project:          | LB92517    | Date Received:  | 1/5/2018 12:00:00 AM |
| Client Sample ID: | SB-03-COMP | SDG No.:        | LB92517              |
| Lab Sample ID:    | J1043-24   | 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



## GENCHEM

- 2a -

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92517

SDG No.: LB92517

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

Case No.: LB92517

SAS No.: LB92517

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      | Reactive Cyanide | 0.1            | 0.099      | 101           | 0        | 85 - 115                  |   | 01/08/2018       | 15:19            | LB92517       |

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## GENCHEM

- 2a -

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92517

SDG No.: LB92517

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

Case No.: LB92517

SAS No.: LB92517

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 | 0.25           | 0.25       | 100           | 0        | 90 - 110                  |   | 01/08/2018       | 15:19            | LB92517       |
| CCV2      | Reactive Cyanide | 0.25           | 0.25       | 100           | 0        | 90 - 110                  |   | 01/08/2018       | 15:25            | LB92517       |

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**GENCHEM**

- 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB92517

SDG No.: LB92517

**Contract:**

Lab Code: CHEM

**Case No.:** LB92517

**SAS No.:** LB92517

| 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 | 0.0019         | +/-0.005            | U            |     | 0.005 |   | 01/08/2018       | 15:19            | LB92517       |



**GENCHEM**

- 3a -

### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB92517

SDG No.: LB92517

**Contract:**

Lab Code: CHEM

**Case No.:** LB92517

**SAS No.:** LB92517

| 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 | 0.0019         | +/-0.005            | U            |     | 0.005 |   | 01/08/2018       | 15:19            | LB92517       |
| CCB2      | Reactive Cyanide | 0.0021         | +/-0.005            | U            |     | 0.005 |   | 01/08/2018       | 15:25            | LB92517       |



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92517

SDG No.: LB92517

Contract: Lab Code: CHEM

Case No.: LB92517

SAS No.: LB92517

| 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: LB92517

SDG No.: LB92517

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     |
|------------|------------------|-------------------|---------------------|--------------------|--------------|------------------|---|--------------------------|---------------------|---------|
| PB105517BL | Reactive Cyanide | SOLID<br>0.019    | <0.05               | Batch Number:<br>U |              | PB105517<br>0.05 |   | Prep Date:<br>01/08/2018 | 01/08/2018<br>15:19 | LB92517 |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB92517      **Level:** LOW      **SDG No.:** LB92517  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB92517      **SAS No.:** LB92517  
**Matrix:** Solid      **Sample ID:** J1043-17      **Client ID:** SB-10-COMPDUP  
**Percent Solids for Sample:** 100      **Duplicate ID** J1043-17DUP      **Percent Solids for Spike Sample:** 100

| Analyte          | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|------------------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Reactive Cyanide | mg/Kg | 20                  | 0.025            | U | 0.00065             | U |     |      |   |