

**Daily Analysis Runlog For Sequence/QC Batch ID # LB95803**

|               |             |                                                        |        |                         |         |        |
|---------------|-------------|--------------------------------------------------------|--------|-------------------------|---------|--------|
| Review By     |             | Review On                                              |        |                         |         |        |
| SubDirectory  |             | LB95803                                                |        | Test : Reactive Cyanide |         |        |
| STD. NAME     |             | STD REF.#                                              |        |                         |         |        |
| ICAL Standard |             | WP64996,WP64997,WP64998,WP64999,WP6500,WP65001,WP65002 |        |                         |         |        |
| ICV Standard  |             | WP65004                                                |        |                         |         |        |
| CCV Standard  |             | WP65003                                                |        |                         |         |        |
| ICSA Standard |             | N/A                                                    |        |                         |         |        |
| CRI Standard  |             | N/A                                                    |        |                         |         |        |
| LCS Standard  |             | N/A                                                    |        |                         |         |        |
| Chk Standard  |             | WP65005,WP64695,WP64696                                |        |                         |         |        |
| Sr#           | SampleID    | ClientID                                               | QcType | Date                    | Comment | Status |
| 1             | 0.0PPBCN    | 0.0PPBCN                                               | CAL1   | 06/04/18 11:00          |         | OK     |
| 2             | 5.0PPBCN    | 5.0PPBCN                                               | CAL2   | 06/04/18 11:00          |         | OK     |
| 3             | 10PPBCN     | 10PPBCN                                                | CAL3   | 06/04/18 11:00          |         | OK     |
| 4             | 50PPBCN     | 50PPBCN                                                | CAL4   | 06/04/18 11:00          |         | OK     |
| 5             | 100PPBCN    | 100PPBCN                                               | CAL5   | 06/04/18 11:00          |         | OK     |
| 6             | 250PPBCN    | 250PPBCN                                               | CAL6   | 06/04/18 11:00          |         | OK     |
| 7             | 500PPBCN    | 500PPBCN                                               | CAL7   | 06/04/18 11:00          |         | OK     |
| 8             | ICV1        | ICV1                                                   | ICV    | 06/04/18 15:35          |         | OK     |
| 9             | ICB1        | ICB1                                                   | ICB    | 06/04/18 15:35          |         | OK     |
| 10            | CCV1        | CCV1                                                   | CCV    | 06/04/18 15:35          |         | OK     |
| 11            | CCB1        | CCB1                                                   | CCB    | 06/04/18 15:35          |         | OK     |
| 12            | PB109928BL  | PB109928BL                                             | MB     | 06/04/18 15:35          |         | OK     |
| 13            | J3283-01    | SS-OILY-DEBRIS                                         | SAM    | 06/04/18 15:35          |         | OK     |
| 14            | J3283-01DUP | SS-OILY-DEBRISDU                                       | DUP    | 06/04/18 15:35          |         | OK     |
| 15            | J3286-02    | TP-6A-WC-1                                             | SAM    | 06/04/18 15:35          |         | OK     |
| 16            | J3286-04    | TP-6A-WC-2                                             | SAM    | 06/04/18 15:35          |         | OK     |
| 17            | J3286-06    | TP-6A-WC-3                                             | SAM    | 06/04/18 15:35          |         | OK     |
| 18            | J3286-08    | TP-6A-WC-4                                             | SAM    | 06/04/18 15:35          |         | OK     |
| 19            | J3286-10    | TP-6A-WC-5                                             | SAM    | 06/04/18 15:41          |         | OK     |
| 20            | PB109927BL  | PB109927BL                                             | MB     | 06/04/18 15:41          |         | OK     |
| 21            | J3273-02    | GROUND-WATER                                           | SAM    | 06/04/18 15:41          |         | 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 # LB95803**

|                  |             |                                                        |     |                |  |    |
|------------------|-------------|--------------------------------------------------------|-----|----------------|--|----|
| Review By        |             | Review On                                              |     |                |  |    |
| SubDirectory     |             | Test : Reactive Cyanide                                |     |                |  |    |
| LB95803          |             |                                                        |     |                |  |    |
| <b>STD. NAME</b> |             | <b>STD REF.#</b>                                       |     |                |  |    |
| ICAL Standard    |             | WP64996,WP64997,WP64998,WP64999,WP6500,WP65001,WP65002 |     |                |  |    |
| ICV Standard     |             | WP65004                                                |     |                |  |    |
| CCV Standard     |             | WP65003                                                |     |                |  |    |
| ICSA Standard    |             | N/A                                                    |     |                |  |    |
| CRI Standard     |             | N/A                                                    |     |                |  |    |
| LCS Standard     |             | N/A                                                    |     |                |  |    |
| Chk Standard     |             | WP65005,WP64695,WP64696                                |     |                |  |    |
| 22               | CCV2        | CCV2                                                   | CCV | 06/04/18 15:41 |  | OK |
| 23               | CCB2        | CCB2                                                   | CCB | 06/04/18 15:41 |  | OK |
| 24               | J3273-02DUP | GROUND-WATERDU                                         | DUP | 06/04/18 15:41 |  | OK |
| 25               | CCV3        | CCV3                                                   | CCV | 06/04/18 15:41 |  | OK |
| 26               | CCB3        | CCB3                                                   | CCB | 06/04/18 15:41 |  | OK |



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## Report of Analysis

|                   |              |                 |                      |
|-------------------|--------------|-----------------|----------------------|
| Client:           |              | Date Collected: | 6/1/2018 12:00:00 AM |
| Project:          | LB95803      | Date Received:  | 6/1/2018 12:00:00 AM |
| Client Sample ID: | GROUND-WATER | SDG No.:        | LB95803              |
| Lab Sample ID:    | J3273-02     | Matrix:         | WATER                |
| Level (low/med):  | low          | % Solid:        | 0                    |

| Cas | Parameter        | Conc.  | Qua. | DF | MDL    | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|-----|------------------|--------|------|----|--------|-----|------------|-------|------------|------------|----------|
|     | Reactive Cyanide | 0.0005 | U    | 1  | 0.0025 |     | 0.005      | mg/L  | 06/04/2018 | 06/04/2018 | 9012B    |

**Report of Analysis**

|                   |                |                 |                      |
|-------------------|----------------|-----------------|----------------------|
| Client:           |                | Date Collected: | 6/1/2018 12:00:00 AM |
| Project:          | LB95803        | Date Received:  | 6/1/2018 12:00:00 AM |
| Client Sample ID: | SS-OILY-DEBRIS | SDG No.:        | LB95803              |
| Lab Sample ID:    | J3283-01       | 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 | 0.012 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 06/04/2018 | 06/04/2018 | 9012B    |



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## Report of Analysis

|                   |            |                 |                      |
|-------------------|------------|-----------------|----------------------|
| Client:           |            | Date Collected: | 6/1/2018 12:00:00 AM |
| Project:          | LB95803    | Date Received:  | 6/1/2018 12:00:00 AM |
| Client Sample ID: | TP-6A-WC-1 | SDG No.:        | LB95803              |
| Lab Sample ID:    | J3286-02   | 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 | 0.0076 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 06/04/2018 | 06/04/2018 | 9012B    |



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## Report of Analysis

|                   |            |                 |                      |
|-------------------|------------|-----------------|----------------------|
| Client:           |            | Date Collected: | 6/1/2018 12:00:00 AM |
| Project:          | LB95803    | Date Received:  | 6/1/2018 12:00:00 AM |
| Client Sample ID: | TP-6A-WC-2 | SDG No.:        | LB95803              |
| Lab Sample ID:    | J3286-04   | 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 | 0.0067 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 06/04/2018 | 06/04/2018 | 9012B    |



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## Report of Analysis

|                   |            |                 |                      |
|-------------------|------------|-----------------|----------------------|
| Client:           |            | Date Collected: | 6/1/2018 12:00:00 AM |
| Project:          | LB95803    | Date Received:  | 6/1/2018 12:00:00 AM |
| Client Sample ID: | TP-6A-WC-3 | SDG No.:        | LB95803              |
| Lab Sample ID:    | J3286-06   | 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 | 0.02  | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 06/04/2018 | 06/04/2018 | 9012B    |

**Report of Analysis**

|                   |            |                 |                      |
|-------------------|------------|-----------------|----------------------|
| Client:           |            | Date Collected: | 6/1/2018 12:00:00 AM |
| Project:          | LB95803    | Date Received:  | 6/1/2018 12:00:00 AM |
| Client Sample ID: | TP-6A-WC-4 | SDG No.:        | LB95803              |
| Lab Sample ID:    | J3286-08   | 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 | 0.012 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 06/04/2018 | 06/04/2018 | 9012B    |





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## Report of Analysis

|                   |            |                 |                      |
|-------------------|------------|-----------------|----------------------|
| Client:           |            | Date Collected: | 6/1/2018 12:00:00 AM |
| Project:          | LB95803    | Date Received:  | 6/1/2018 12:00:00 AM |
| Client Sample ID: | TP-6A-WC-5 | SDG No.:        | LB95803              |
| Lab Sample ID:    | J3286-10   | 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 | 0.015 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 06/04/2018 | 06/04/2018 | 9012B    |



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## Report of Analysis

|                   |            |                 |                      |
|-------------------|------------|-----------------|----------------------|
| Client:           |            | Date Collected: | 6/1/2018 12:00:00 AM |
| Project:          | LB95803    | Date Received:  | 6/1/2018 12:00:00 AM |
| Client Sample ID: | TP-6A-WC-5 | SDG No.:        | LB95803              |
| Lab Sample ID:    | J3286-10   | 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

| Sample ID | Analyte          | Result<br>mg/L | True Value | %<br>Recovery | Qual | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|------------------|----------------|------------|---------------|------|---------------------------|---|------------------|------------------|---------------|
| ICV1      | Reactive Cyanide | 0.097          | 0.099      | 98            |      | 85 - 115                  |   | 06/04/2018       | 15:35            | LB95803       |



## GENCHEM

- 2a -

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95803

SDG No.: LB95803

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

Case No.: LB95803

SAS No.: LB95803

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

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

| Sample ID | Analyte          | Result<br>mg/L | True Value | %<br>Recovery | Qual | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|------------------|----------------|------------|---------------|------|---------------------------|---|------------------|------------------|---------------|
| CCV1      | Reactive Cyanide | 0.24           | 0.25       | 96            |      | 90 - 110                  |   | 06/04/2018       | 15:35            | LB95803       |
| CCV2      | Reactive Cyanide | 0.25           | 0.25       | 100           |      | 90 - 110                  |   | 06/04/2018       | 15:41            | LB95803       |
| CCV3      | Reactive Cyanide | 0.25           | 0.25       | 100           |      | 90 - 110                  |   | 06/04/2018       | 15:41            | LB95803       |



**GENCHEM**

- 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB95803

SDG No.: LB95803

**Contract:**

Lab Code: CHEM

**Case No.:** LB95803

**SAS No.:** LB95803

| 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 | 0.00047        | +/-0.005            | U            |     | 0.005 |   | 06/04/2018       | 15:35            | LB95803       |



**GENCHEM**

- 3a -

### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB95803

SDG No.: LB95803

**Contract:**

Lab Code: CHEM

**Case No.:** LB95803

**SAS No.:** LB95803

| 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 | 0.00028        | +/-0.005            | U            |     | 0.005 |   | 06/04/2018       | 15:35            | LB95803       |
| CCB2      | Reactive Cyanide | 0.00053        | +/-0.005            | U            |     | 0.005 |   | 06/04/2018       | 15:41            | LB95803       |
| CCB3      | Reactive Cyanide | 0.00034        | +/-0.005            | U            |     | 0.005 |   | 06/04/2018       | 15:41            | LB95803       |



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95803

SDG No.: LB95803

Contract: Lab Code: CHEM

Case No.: LB95803

SAS No.: LB95803

| 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:** LB95803

**SDG No.:** LB95803

**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     |
|------------|------------------|-------------------|---------------------|---------------|--------------|---------------|---|------------------|------------------|---------|
| PB109927BL | Reactive Cyanide | WATER             |                     | Batch Number: |              | PB109927      |   | Prep Date:       | 06/04/2018       |         |
|            |                  | 0.0001            | <0.005              | U             |              | 0.005         |   | 06/04/2018       | 15:41            | LB95803 |
| 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     |
| PB109928BL | Reactive Cyanide | SOLID             |                     | Batch Number: |              | PB109928      |   | Prep Date:       | 06/04/2018       |         |
|            |                  | 0.013             | <0.05               | U             |              | 0.05          |   | 06/04/2018       | 15:35            | LB95803 |



# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB95803      **Level:** LOW      **SDG No.:** LB95803  
**Contract:** \_\_\_\_\_      **Lab Code:** CHEM      **Case No.:** LB95803      **SAS No.:** LB95803  
**Matrix:** WATER      **Sample ID:** J3273-02      **Client ID:** GROUND-WATERDUP  
**Percent Solids for Sample:** 0      **Duplicate ID** J3273-02DUP      **Percent Solids for Spike Sample:** 0

| Analyte          | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|------------------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Reactive Cyanide | mg/L  | 20                  | 0.0025           | U | 0.0012              | U |     |      |   |

## GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

Client: LB95803 Level: LOW SDG No.: LB95803  
Contract: \_\_\_\_\_ Lab Code: CHEM Case No.: LB95803 SAS No.: LB95803  
Matrix: Solid Sample ID: J3283-01 Client ID: SS-OILY-DEBRISDUP  
Percent Solids for Sample: 100 Duplicate ID J3283-01DUP 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 | 0.02                | U |     |      |   |