



**Metals**  
**- 14 -**  
**ANALYSIS RUN LOG**

**Client:** LB99316

**Contract:**

**Lab Code:** CHEM                      **Case No.:** LB99316                      **SAS No.:** LB99316

SDG No.: LB99316

**Instrument ID Number:** \_\_\_\_\_ **Method:** \_\_\_\_\_

Run Number: LB99316

**Start Date:** \_\_\_\_\_ **End Date:** \_\_\_\_\_

[illegible]

FORM 15-IN  
INITIAL CALIBRATION

Lab Name: LB99316 Contract: \_\_\_\_\_  
Lab Code: CHEM Case No.: LB99316 MA No.: \_\_\_\_\_ SDG No.: LB99316  
Instrument ID: CN Start Date: 11/14/2018  
Analytical Method: \_\_\_\_\_ Run Batch: LB99316.mdb  
Concentration Units: ug/L

| Analyte | True | Found | %D | True | Found | %D | True | Found | %D |
|---------|------|-------|----|------|-------|----|------|-------|----|
| Cyanide | 0    | 0     | 0  | 5    | 5.0   | 0  | 10   | 10.2  | 2  |

FORM 15-IN  
INITIAL CALIBRATION

Lab Name: LB99316 Contract: \_\_\_\_\_  
Lab Code: CHEM Case No.: LB99316 MA No.: \_\_\_\_\_ SDG No.: LB99316  
Instrument ID: CN Start Date: 11/14/2018  
Analytical Method: \_\_\_\_\_ Run Batch: LB99316.mdb  
Concentration Units: ug/L

| Analyte | True | Found | %D | True | Found | %D | True | Found | %D |
|---------|------|-------|----|------|-------|----|------|-------|----|
| Cyanide | 100  | 100   | 0  | 250  | 249   | 0  | 500  | 500   | 0  |

**Metals**

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**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** LB99316 **SDG No.:** LB99316  
**Contract:**                      **Lab Code:** CHEM **Case No.:** LB99316 **SAS No.:** LB99316  
**Initial Calibration Source:**                                       
**Continuing Calibration Source:**                                     

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| Sample ID | Analyte | Result<br>ug/L | True Value | %<br>Recovery | %<br>RSD | Acceptance<br>Window (%R) | M  | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|------------|---------------|----------|---------------------------|----|------------------|------------------|---------------|
| ICV       | Cyanide | 98.0           | 99         | 99            | 0        | 85 - 115                  | CN | 11/14/2018       | 09:53            | LB99316       |



## Metals

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## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** LB99316

SDG No.: LB99316

**Contract:**                      **Lab Code:**    CHEM

**Case No.:** LB99316

**SAS No.:** LB99316

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

**Continuing Calibration Source:**

| Sample ID | Analyte | Result | True Value | % Recovery | % RSD | Acceptance Window (%R) | M  | Analysis Date | Analysis Time | Run Number |
|-----------|---------|--------|------------|------------|-------|------------------------|----|---------------|---------------|------------|
|           |         | ug/L   |            |            |       |                        |    |               |               |            |
| CCV001    | Cyanide | 235    | 250        | 94         | 0     | 85 - 115               | CN | 11/14/2018    | 10:01         | LB99316    |
| CCV002    | Cyanide | 255    | 250        | 102        | 0     | 85 - 115               | CN | 11/14/2018    | 10:04         | LB99316    |
| CCV003    | Cyanide | 240    | 250        | 96         | 0     | 85 - 115               | CN | 11/14/2018    | 10:27         | LB99316    |



**Metals**

**- 3a -**

**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** LB99316 **SDG No.:** LB99316  
**Contract:**                      **Lab Code:** CHEM **Case No.:** LB99316 **SAS No.:** LB99316

| Sample ID | Analyte | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | LOD | CRQL | M  | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|---------------------|--------------|-----|------|----|------------------|------------------|---------------|
| ICB       | Cyanide | 0.79           | +/-10.0             | U            | 5.0 | 10.0 | CN | 11/14/2018       | 09:53            | LB99316       |



Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

| Client: LB99316 |                | SDG No.: LB99316  |                     |              |     |      |    |                  |                  |               |
|-----------------|----------------|-------------------|---------------------|--------------|-----|------|----|------------------|------------------|---------------|
| Contract: _____ | Lab Code: CHEM | Case No.: LB99316 | SAS No.: LB99316    |              |     |      |    |                  |                  |               |
| Sample ID       | Analyte        | Result<br>ug/L    | Acceptance<br>Limit | Conc<br>Qual | LOD | CRQL | M  | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
| CCB001          | Cyanide        | 0.24              | +/-10.0             | U            | 5.0 | 10.0 | CN | 11/14/2018       | 10:01            | LB99316       |
| CCB002          | Cyanide        | 0.22              | +/-10.0             | U            | 5.0 | 10.0 | CN | 11/14/2018       | 10:04            | LB99316       |
| CCB003          | Cyanide        | 0.3               | +/-10.0             | U            | 5.0 | 10.0 | CN | 11/14/2018       | 10:28            | LB99316       |



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB99316

SDG No.: LB99316

Contract: Lab Code: CHEM

Case No.: LB99316

SAS No.: LB99316

| Sample ID | Analyte | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | LOD | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|
|-----------|---------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|



Metals  
- 3b -  
PREPARATION BLANK SUMMARY

Client: LB99316

SDG No.: LB99316

Instrument: CN

| Sample ID | Analyte | Result<br>(ug/L) | Acceptance<br>Limit | Conc<br>Qual  | LOD<br>ug/L | CRQL<br>ug/L | M  | Analysis<br>Date | Analysis<br>Time | Run     |
|-----------|---------|------------------|---------------------|---------------|-------------|--------------|----|------------------|------------------|---------|
| PBS       |         | WATER            |                     | Batch Number: |             |              |    | Prep Date:       |                  |         |
|           | Cyanide | 0.36             | <10                 | U             | 5.0         | 10           | CN | 11/14/2018       | 10:27            | LB99316 |
| Sample ID | Analyte | Result<br>(ug/L) | Acceptance<br>Limit | Conc<br>Qual  | LOD<br>ug/L | CRQL<br>ug/L | M  | Analysis<br>Date | Analysis<br>Time | Run     |
| PBW       |         | WATER            |                     | Batch Number: |             |              |    | Prep Date:       |                  |         |
|           | Cyanide | 0.31             | <10                 | U             | 5.0         | 10           | CN | 11/14/2018       | 10:01            | LB99316 |



**Hit Summary Sheet**  
**SW-846**

**SDG No.:** LB99316

**Order ID:** LB99316

**Client:** LB99316

**Project ID:** LB99316

| Sample ID                | Client ID    | Matrix | Parameter | Concentration | C | MDL | LOD | RDL | Units |
|--------------------------|--------------|--------|-----------|---------------|---|-----|-----|-----|-------|
| Client ID : MDL-SOIL-01  | MDL-SOIL-01  | Water  | Cyanide   | 4.200         | J | 2.1 | 5   | 10  | ug/L  |
| MDL-SOIL-01              | MDL-SOIL-01  | Water  | Cyanide   | 4.200         | J | 2.1 | 5   | 10  | ug/L  |
| Client ID : MDL-SOIL-02  | MDL-SOIL-02  | Water  | Cyanide   | 6.400         | J | 2.1 | 5   | 10  | ug/L  |
| MDL-SOIL-02              | MDL-SOIL-02  | Water  | Cyanide   | 6.400         | J | 2.1 | 5   | 10  | ug/L  |
| Client ID : MDL-SOIL-03  | MDL-SOIL-03  | Water  | Cyanide   | 4.400         | J | 2.1 | 5   | 10  | ug/L  |
| MDL-SOIL-03              | MDL-SOIL-03  | Water  | Cyanide   | 4.400         | J | 2.1 | 5   | 10  | ug/L  |
| Client ID : MDL-SOIL-04  | MDL-SOIL-04  | Water  | Cyanide   | 3.200         | J | 2.1 | 5   | 10  | ug/L  |
| MDL-SOIL-04              | MDL-SOIL-04  | Water  | Cyanide   | 3.200         | J | 2.1 | 5   | 10  | ug/L  |
| Client ID : MDL-SOIL-05  | MDL-SOIL-05  | Water  | Cyanide   | 4.700         | J | 2.1 | 5   | 10  | ug/L  |
| MDL-SOIL-05              | MDL-SOIL-05  | Water  | Cyanide   | 4.700         | J | 2.1 | 5   | 10  | ug/L  |
| Client ID : MDL-SOIL-06  | MDL-SOIL-06  | Water  | Cyanide   | 4.400         | J | 2.1 | 5   | 10  | ug/L  |
| MDL-SOIL-06              | MDL-SOIL-06  | Water  | Cyanide   | 4.400         | J | 2.1 | 5   | 10  | ug/L  |
| Client ID : MDL-SOIL-07  | MDL-SOIL-07  | Water  | Cyanide   | 4.500         | J | 2.1 | 5   | 10  | ug/L  |
| MDL-SOIL-07              | MDL-SOIL-07  | Water  | Cyanide   | 4.500         | J | 2.1 | 5   | 10  | ug/L  |
| Client ID : MDL-WATER-01 | MDL-WATER-01 | Water  | Cyanide   | 4.100         | J | 2.1 | 5   | 10  | ug/L  |
| MDL-WATER-01             | MDL-WATER-01 | Water  | Cyanide   | 4.100         | J | 2.1 | 5   | 10  | ug/L  |
| Client ID : MDL-WATER-02 | MDL-WATER-02 | Water  | Cyanide   | 6.400         | J | 2.1 | 5   | 10  | ug/L  |
| MDL-WATER-02             | MDL-WATER-02 | Water  | Cyanide   | 6.400         | J | 2.1 | 5   | 10  | ug/L  |
| Client ID : MDL-WATER-03 | MDL-WATER-03 | Water  | Cyanide   | 4.200         | J | 2.1 | 5   | 10  | ug/L  |
| MDL-WATER-03             | MDL-WATER-03 | Water  | Cyanide   | 4.200         | J | 2.1 | 5   | 10  | ug/L  |
| Client ID : MDL-WATER-04 | MDL-WATER-04 | Water  | Cyanide   | 3.100         | J | 2.1 | 5   | 10  | ug/L  |
| MDL-WATER-04             | MDL-WATER-04 | Water  | Cyanide   | 3.100         | J | 2.1 | 5   | 10  | ug/L  |
| Client ID : MDL-WATER-05 | MDL-WATER-05 | Water  | Cyanide   | 5.000         | J | 2.1 | 5   | 10  | ug/L  |
| MDL-WATER-05             | MDL-WATER-05 | Water  | Cyanide   | 5.000         | J | 2.1 | 5   | 10  | ug/L  |
| Client ID : MDL-WATER-06 | MDL-WATER-06 | Water  | Cyanide   | 4.500         | J | 2.1 | 5   | 10  | ug/L  |
| MDL-WATER-06             | MDL-WATER-06 | Water  | Cyanide   | 4.500         | J | 2.1 | 5   | 10  | ug/L  |
| Client ID : MDL-WATER-07 | MDL-WATER-07 | Water  | Cyanide   | 4.100         | J | 2.1 | 5   | 10  | ug/L  |
| MDL-WATER-07             | MDL-WATER-07 | Water  | Cyanide   | 4.100         | J | 2.1 | 5   | 10  | ug/L  |